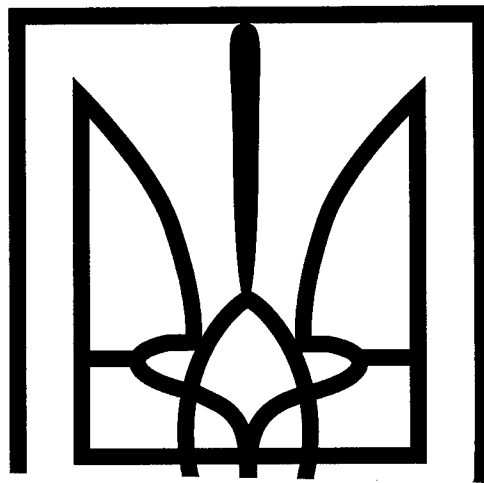


Investment Opportunities in

krainian Defense Conversion



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Additional copies of this document*, as well as future installments, may be obtained from the editor.

Copies of the **Directory** are also available from the:

Department of Commerce Economic Bulletin Board (EBB):

The **Directory** highlights and enterprise profiles are available in electronic format through the Department of Commerce's Economic Bulletin Board (EBB), located under "Defense Conversion Subcommittee Information for Russia and the NIS" (Area 20 on the EBB). For more information regarding access or use, call EBB Info/Help line at (202) 482-1986, or (800) 782-8872.

E-mail: ebb.stat-usa.gov

STAT-USA/Fax: 202-482-0005. A fax-on-demand service is available for the most popular files on the Economic Bulletin Board at a cost of \$100/year.

National Trade Data Bank:

A CD-ROM version of the cumulative version is available in the current edition of the National Trade Data Bank (NTDB) at a cost of \$59.00 or annual subscription of \$575.00. NTDB's phone number is (202) 482-1986.

Internet: <http://www.stat-usa.gov>

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DTIC QUALITY INSPECTED 2

The Department of Commerce is providing this information to the U.S. business community to facilitate commercial contacts. It does not endorse any, or all, of these enterprises, nor does it intend for this list to comprise the enterprises which present the best Ukrainian defense-related business opportunities. The department is not rank ordering the enterprises in any way.

While the Department of Commerce has made every effort to ensure the reliability of the information contained in this directory, it cannot guarantee either its accuracy or completeness.

CHAPTER 1 - DIRECTORY OF UKRAINIAN ENTERPRISES

PROFILE KEY ELEMENTS

Each enterprise entry provides the following information:

ENTERPRISE NAME:

This entry provides the name by which the enterprise is most commonly known, as well as any commonly known alternative name. Names of facilities in Ukrainian can vary widely. At times, some enterprises were known under the name of the building in which they were located or a location within a city. In addition, many enterprises have changed their names during the past several years.

ADDRESS/TELEPHONE:

This entry provides the address in Ukrainian format. Postal service to Ukraine is sometimes unreliable, and at best slow. Therefore, communication by fax or E-Mail is suggested. When it is necessary to follow up on a lead by mail, the addresses should be written in the following format, preferably in Ukrainian, to ensure proper delivery:

Country name in Ukrainian
Zip Code City
Street Name, Street #
Apartment/Office #
Addressee (Name of company and contact)
Country name in English.

Space is provided for telephone, fax, telegraph, and Electronic Mail (E-Mail). Where no number appears, information will be added as it becomes available. The reliability of these numbers varies, and the lines of communication are not always operating. Telegrams are a useful and reliable mechanism for communication. Use International Access Code "011" to place a station-to-station call and "00" for operator-assisted calls (e.g., person-to-person calls).

Increasingly, Ukrainian government and enterprise officials are using Internet-compatible E-Mail to communicate quickly, reliably, and conveniently. Information sent via an E-Mail file is approximately 5 percent of the size of a corresponding fax file. E-Mail also provides greater flexibility than fax transmissions, as messages can be stored until the receiving end is operating. Moreover, E-Mail rates may be less expensive than fax rates at the point of origin.

GENERAL OVERVIEW:

This entry provides a general overview of the enterprise, detailing its major products and technology.

PRIMARY BUSINESS:

This lists the specific military focus of the enterprise (e.g., electronic components).

FORMER MINISTRY SUBORDINATION:

In the past, one of several central Soviet ministries controlled defense industry enterprises. The majority of defense plants in Ukraine today are now subordinate to, although not strictly controlled by, the Ukrainian Ministry of Machine Building, the Military Industrial Complex, and Conversion.

EMPLOYMENT:

This provides the latest known number of employees. These figures are highly variable as many enterprises are down-sizing as they restructure to adapt to an evolving economic system.

PRINCIPAL OFFICERS:

This lists the known principal officers of the enterprise (along with their titles).

OWNERSHIP:

Until recently, the state owned all defense enterprises in Ukraine. With the introduction of economic reforms, some have now become joint-stock companies as part of the privatization process, and others are leased. Where known, this entry indicates who owns what share of a joint-stock company.

YEAR ESTABLISHED:

This indicates the date when an enterprise was established. This information may provide some indication of the age of some of the basic infrastructure at an enterprise.

MILITARY PRODUCT LINE:

This category lists products manufactured for the military. This may provide an indication of the types of technology available.

CIVILIAN PRODUCT LINE:

This category lists products manufactured for civil use.

KEY TECHNOLOGIES/EQUIPMENT EMPLOYED:

This entry lists any known sophisticated facilities, equipment, or processes belonging to the enterprise.

CONVERSION PROJECTS:

This entry identifies any conversion plans or efforts currently underway at the enterprise.

HUMAN RESOURCES SUPPORT:

This will identify any known human resource support (e.g., housing, medical, child care) that the facility provides its work force. In discussions with Ukrainian enterprises, U.S. industry should take careful note of the additional financial burden such human resources support may impose on joint ventures and be prepared to address this issue in negotiations.

OTHER RELEVANT INFORMATION:

This provides any additional relevant information.

The entry "N/A" indicates means that information was not available at the time of publication.

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BILA TSERKVA

ENTERPRISE NAME: FERROKERAM PRODUCTION ASSOCIATION

ALTERNATE NAMES: Proizvodstvennoye obedineniye "Ferrokeram", PO Ferrokeram.

ADDRESS:

256400, Kievskaya oblast, Bila Tserkva, Ukraine
Vulitsya Fastovskaya, 23 Ferroceramic Production Association

Telephone: (011-380-4463) 6-25-45
Telex: N/A Teletype: 131249 BAZIS
Fax: (011-380-4463) 6-02-34

GENERAL OVERVIEW: The Ferrokeram Production Association produces mainly ferrites and ceramic parts for electronic equipment and also develops the associated production technology. It includes the Radioceramics Plant and the collocated Special Technological Design Bureau (OTKB).

PRIMARY BUSINESS: Ferrites

FORMER MINISTRY SUBORDINATION: Ministry of the Electronics Industry

APPROXIMATE EMPLOYMENT: Total: 8,000 Date: 1992

PRINCIPAL OFFICERS:

Marlen Stepanovich Lyaskovets, Director

OWNERSHIP: State-owned

YEAR ESTABLISHED: N/A

MILITARY PRODUCT LINES: Ceramic and ferrite parts for electronic equipment used for military purposes.

CIVIL PRODUCT LINES: Ceramic parts; magnets and magnetic circuits; ferrite antennas, memory cores, and other ferrite devices; capacitors and capacitor subassemblies; furniture accessories, household mirrors, jewelry, and other consumer goods.

KEY TECHNOLOGIES/EQUIPMENT EMPLOYED: N/A

CONVERSION PROJECTS: N/A

HUMAN RESOURCES SUPPORT: N/A

OTHER RELEVANT INFORMATION: The city of Bila Tserkva was formerly known as Belaya Tserkov.

BORYSPIL

ENTERPRISE NAME: PROMETHEY JOINT STOCK COMPANY

ALTERNATE NAMES: Aktsionnernoje obshchestvo "Prometey", AO Prometey, Prometey Plant

ADDRESS:

256300, Boryspil, Ukraine
Vulitsya Shevchenko, 100
Prometey Joint Stock Company

Telephone: (011-380-4495) 5-51-55, 5-51-40

Telex: N/A

Teletype: 132890 KVAZAR

Fax: (011-380-4495) 5-51-55

GENERAL OVERVIEW: Prometey produces computer components, especially hard disk memories. It was formerly part of the Mikroprotssessor Scientific Production Association.

PRIMARY BUSINESS: Computer components

FORMER MINISTRY SUBORDINATION: Ministry of the Electronics Industry

APPROXIMATE EMPLOYMENT: N/A

PRINCIPAL OFFICERS:

Mikhail Gavrilovich Ivantsok, Director

OWNERSHIP: Joint Stock Company

YEAR ESTABLISHED: N/A

MILITARY PRODUCT LINES: Components for military computers.

CIVIL PRODUCT LINES: Computer hard disks, computer peripheral equipment, integrated circuits, household clocks.

KEY TECHNOLOGIES/EQUIPMENT EMPLOYED: N/A

CONVERSION PROJECTS: N/A

HUMAN RESOURCES SUPPORT: N/A

OTHER RELEVANT INFORMATION: The city of Boryspil was formerly known as Borispol.

CHERKASY

ENTERPRISE NAME: CHERKASY FOTOPRIBOR PLANT PRODUCTION ASSOCIATION

ALTERNATE NAMES: Proizvodstvennoye obedineniye "Cherkasskiy zavod fotopribor", PO Fotopribor.

ADDRESS:

257036, Cherkasy, Ukraine
Vulitsya Sverdlova, 85
Cherkasy Fotopribor Plant Production Association

Telephone: (011-380-472) 47-33-79

Telex: N/A

Teletype: N/A

Fax: N/A

GENERAL OVERVIEW: The Cherkasy Fotopribor Plant Production Association specializes in the production of photographic and photo-processing instruments and equipment. The Association includes the Fotopribor plant.

PRIMARY BUSINESS: Photographic equipment

FORMER MINISTRY SUBORDINATION: Ministry of the Defense Industry

APPROXIMATE EMPLOYMENT: N/A

PRINCIPAL OFFICERS:

Boris Gavrilovich Ivashkov, General Director
O. L. Marushchak, Director of plant

OWNERSHIP: State-owned

YEAR ESTABLISHED: N/A

MILITARY PRODUCT LINES: Optical instruments

CIVIL PRODUCT LINES: Cameras, including high-speed precision and motion-picture types; photo-interpretation instruments; film developing equipment; copy machines; photo printing apparatus; photo laboratory lighting instruments; compasses, underwater swimming masks, vacuum cleaners, tachometers, fuel pumps, and games.

KEY TECHNOLOGIES/EQUIPMENT EMPLOYED: N/A

CONVERSION PROJECTS: N/A

HUMAN RESOURCES SUPPORT: N/A

OTHER RELEVANT INFORMATION: The city of Cherkasy was formerly known as Cherkassy

ENTERPRISE NAME: CHERKASY INSTRUMENT-BUILDING PLANT

ALTERNATE NAMES: Cherkasskiy Priborostroitel'niy Zavod, ChPZ

ADDRESS:

257029, Cherkasy, Ukraine
30-Rokiv Peremohy, 5/1
Cherkasy Instrument-Building Plant

Telephone: (011-380-472) 66-28-79, 66-85-37

Telex: N/A

Teletype: 147276 PRIBOY

Fax: (011-380-472) 63-46-88

GENERAL OVERVIEW: The Cherkasy Instrument-Building plant has produced electronic components for military use. The plant also produces a variety of electronic equipment for the agricultural and food processing industries as well as for consumer electronics.

PRIMARY BUSINESS: Electronics

FORMER MINISTRY SUBORDINATION: Ministry of the Defense Industry

APPROXIMATE EMPLOYMENT: Total: 1,500 Date: 1995

PRINCIPAL OFFICERS:

Volodymyr Andreevich Solomko, General Director
Oleksandr Besymiany, Chief Engineer

OWNERSHIP: State-owned

YEAR ESTABLISHED: 1982

MILITARY PRODUCT LINES: Electronics components

CIVIL PRODUCT LINES: "Vulkan" measurement-computing devices, microprocessor control stations, remote controls, security alarm systems, electric drills, motors for tape recorders, clocks, sewing machines, food processing equipment, medical devices, foam polystyrol goods.

KEY TECHNOLOGIES/EQUIPMENT EMPLOYED: N/A

CONVERSION PROJECTS: The Cherkasy Instrument-Building Plant is seeking a joint venture partner to help produce gas and water meters.

HUMAN RESOURCES SUPPORT: N/A

ENTERPRISE NAME: CHERKASY TELEGRAPH APPARATUS PLANT

ALTERNATE NAMES: Cherkasskiy zavod telegrafnoy apparatury

ADDRESS:

257336, Cherkasy, Ukraine
Vulitsya Odesskaya, 8
Cherkasy Telegraph Apparatus Plant

Telephone: (011-380-472) 47-62-14, 47-97-94

Telex: N/A

Teletype: 147155 ALMAZ

Fax: N/A

GENERAL OVERVIEW: The Cherkasy Telegraph Apparatus Plant produces equipment for telephone and telegraph communications including packet switching, and data transmission equipment.

PRIMARY BUSINESS: Telephone switching equipment

FORMER MINISTRY SUBORDINATION: Ministry of the Radio Industry

APPROXIMATE EMPLOYMENT: Total: 5,000 Date: 1993

PRINCIPAL OFFICERS:

Anatoliy Lavrentyevich Nagulyak

OWNERSHIP: State-owned

YEAR ESTABLISHED: N/A

MILITARY PRODUCT LINES: Communications equipment

CIVIL PRODUCT LINES: Packet switching equipment; data collection and processing systems; data transmission systems; TV receiving antennas for households; 3-, 32-, and 120-channel multiplexing equipment, mechanical lines for trimming printed circuit boards; computer-related equipment, including input and information display devices; souvenirs.

KEY TECHNOLOGIES/EQUIPMENT EMPLOYED: N/A

CONVERSION PROJECTS: N/A

HUMAN RESOURCES SUPPORT: N/A

OTHER RELEVANT INFORMATION: The Cherkasy Telegraph Apparatus Plant is collocated with NII Akkord, which develops wire and radiocommunications equipment.

CHERNIHIV

**ENTERPRISE NAME: CHERNIHIV RADIO INSTRUMENT PLANT
PRODUCTION ASSOCIATION**

ALTERNATE NAMES: "Chernigovskiy radiopribornyy zavod," Chernigov Radio Plant, Chernigov Radio Equipment Plant, CheZaRa

ADDRESS:

250030 Chernihiv, Ukraine

Vulitsya Odintsova, 4

Chernihiv Radio Instrument Plant Production Association

Telephone: (011-380-4622) 3-16-61

Fax: (011-380-4622) 3-61-65

GENERAL OVERVIEW: The Chernihiv Radio Instrument Plant Production Association specializes in electronics instrument engineering; aluminum alloys and plastic casting; printed circuit board production; stamping; metal machining; and microelectronics.

PRIMARY BUSINESS: Televisions and radios

FORMER MINISTRY SUBORDINATION: Ministry of General Machine Building

APPROXIMATE EMPLOYMENT: 12,600

PRINCIPAL OFFICERS:

Konstantin I. Kolesnik, General Director

Nikolay A. Beloshapko, Director, External Economic Relations

OWNERSHIP: State-owned

YEAR ESTABLISHED: 1967

MILITARY PRODUCT LINES: Aircraft control systems

CIVIL PRODUCT LINES: Radios; televisions; tape recorders; modems; data transmission systems; numeric printers; drill chucks; hydraulic dollies; mirrors; needles and syringes; scissors and microsurgical equipment; X-ray machines; comparators; casting machine control systems; converters; liquid pollutant analyzers; dosimeters; fishing rods and reels.

KEY TECHNOLOGIES/EQUIPMENT EMPLOYED: Metal and plastic machining; galvanization; microelectronics; printed circuit board production; product installation and testing.

CONVERSION PROJECTS: Design and production of radio relay complexes; modernization and manufacture of sets for telecommunications multiplexing; development and manufacture of a portable fault finder set for cables; the design and manufacture of automated telephone equipment; development and preparation of quantity production of operating tables and gynecological chairs; quantity production of SM6337 printers; goal-oriented national program for the design of microprocessor diagnostics systems for electric locomotives; goal-oriented comprehensive program for the development of electronic cash registers for savings banks, communications departments, booking offices, and section-line coding devices; comprehensive goal-oriented program for the development and manufacture of household electronic appliances ("Amfeton VP-210" video player, based on semiconductor lasers, and the "Amfeton KD-001S").

The city of Chernihiv was formerly known in the Soviet Union as Chernigov.

CHERNIVTSI

ENTERPRISE NAME: GRAVITON PRODUCTION ASSOCIATION

ALTERNATE NAMES: Proizvodstvennoye Obedineniye "Graviton"; PO Graviton

ADDRESS:

274031, Chernivtsi, Ukraine
Vulitsya Russkaya, 248
Graviton Production Association

Telephone: (011-380-3700) 2-63-23

Telex: N/A

Teletype: 149134 ALMAZ

Fax: (011-380-3700) 6-08-61

GENERAL OVERVIEW: The Graviton Production Association specializes in the production of semiconductors, particularly large scale integrated circuits for computers and microprocessors. It produces much of its own complex production equipment, as well as personal computers, calculators, television receivers, and other products which incorporate its semiconductors.

PRIMARY BUSINESS: electronic components

FORMER MINISTRY SUBORDINATION: Ministry of the Electronic Industry

APPROXIMATE EMPLOYMENT: Total: 5,800 Date: 1993

PRINCIPAL OFFICERS:

Nikolai Vasilyevich Gorobets, Director

OWNERSHIP: State-controlled

YEAR ESTABLISHED: N/A

MILITARY PRODUCT LINES: Computers and electronic components

CIVIL PRODUCT LINES: Semiconductors - transistors, thyristors, epitaxial components; small, medium, and large scale integrated circuits; complex digital electronic computers; personal computers; microcomputers and microprocessors; hard and floppy discs and other peripheral equipment; semiconductor manufacturing equipment, including photo-lithographic and

electrical testing equipment; digital telephone dials; traffic signal systems; table clocks and watches; furniture; car accessories; agricultural equipment; ecological protection equipment; articles for radio and television communications.

KEY TECHNOLOGIES/EQUIPMENT EMPLOYED: N/A

CONVERSION PROJECTS: N/A

HUMAN RESOURCES SUPPORT: N/A

OTHER RELEVANT INFORMATION: The city of Chernivtsi was formerly known as Chernovtsy.

ENTERPRISE NAME: KVARTS PRODUCTION ASSOCIATION

ALTERNATE NAMES: Proivodstvennoye obyedennie "Kvarts", PO Kvarts.

ADDRESS:

274032, Chernivtsi, Ukraine
Vulitsya Glavnaya, 246
Kvarts Production Association

Telephone: (011-380-51) 3-14-51, 4-26-13, 4-28-24

Telex: N/A

Teletype: 149169 MAK

Fax: (011-380-51) 4-28-24

GENERAL OVERVIEW: The Kvarts Production Association produces semi-conductors, principally diodes and transistors for optical applications, and printed circuit boards.

PRIMARY BUSINESS: Electronic components

FORMER MINISTRY SUBORDINATION: N/A

APPROXIMATE EMPLOYMENT: N/A

PRINCIPAL OFFICERS: Roman Nikolayevich Kostiv, Director

OWNERSHIP: State-owned

YEAR ESTABLISHED: N/A

MILITARY PRODUCT LINES: Semiconductor components.

CIVIL PRODUCT LINES: Photodiodes, phototransistors, instrument panels, light filters, lamps, chandeliers, refrigerators, freezers, umbrellas.

KEY TECHNOLOGIES/EQUIPMENT EMPLOYED: N/A

CONVERSION PROJECTS: N/A

HUMAN RESOURCES SUPPORT: N/A

DNIPRODZERZHYNISK

ENTERPRISE NAME: PRIDNEPROVSKIY CHEMICAL PLANT

ALTERNATE NAMES: Pridneprovskiy khimicheskii zavod, PO Pridneprovskiy khimicheskii zavod.

ADDRESS:

322630, Dniprodzerzhynsk, Ukraine
Vulitsya Leningradsкая, 179
Pridneprovskiy Chemical Plant

Telephone: (011-380-5692) 3-00-43

Telex: 127421 ALMAZ

Teletype: 349108 ALMAZ

GENERAL OVERVIEW: The Pridneprovskiy Chemical Plant produces rare and rare-earth metal alloys and compounds for various military and industrial uses, as well as other industrial chemicals and mineral fertilizers. It is the sole producer of zirconium in the CIS.

PRIMARY BUSINESS: Rare earth metals

FORMER MINISTRY SUBORDINATION: N/A

APPROXIMATE EMPLOYMENT: N/A

PRINCIPAL OFFICERS:

Yuriy Fedorovich Korovin, General Director

OWNERSHIP: State-owned.

YEAR ESTABLISHED: 1948

MILITARY PRODUCT LINES: Nuclear-related rare-earth metals, including zirconium and hafnium.

CIVIL PRODUCT LINES: Compounds of rare and rare-earth metals, hafnium, scandium, zirconium, zirconium dioxide, scandium oxide, aluminum alloys, salts of organic and inorganic acids, potassium alum, phosphate fertilizers, ion-exchange resins.

KEY TECHNOLOGIES/EQUIPMENT EMPLOYED: N/A

CONVERSION PROJECTS: The plant is installing equipment to process metal waste containing platinum and platinum-group metals. It also has plans to experiment in the manufacture of platinum-palladium catalyzers from recycled metal scrap to meet the needs of oil-refining and chemical industries.

HUMAN RESOURCES SUPPORT: N/A

OTHER RELEVANT INFORMATION: The city of Dniprodzerzhynsk was formerly known as Dneprodzerzhinsk.

DNIPROPETROVSK

ENTERPRISE NAME: DNIPROPETROVSK AGGREGATE PLANT PRODUCTION ASSOCIATION

ALTERNATE NAMES: Proizvodstvennoye Obyedinenie "Dnipropetrovskiy Agregatniy Zavod", PO Dnipropetrovsk Agregat Plant, Dnepropetrovsk 50th Anniversary of the USSR Components Plant, Avia-Agregat

ADDRESS:

320600, Dnipropetrovsk, Ukraine
Vulitsiya Shchepkina, 53
Dnipropetrovsk Aggregate Plant Production Association

Telephone: (011-380-562) 59-02-18, 59-02-09, 42-22-10
Telex: 127476 PTB
Teletype: 143283 VYS
Fax: (011-380-562) 59-02-37

GENERAL OVERVIEW: The Dnipropetrovsk Aggregate Plant Production Association produces aircraft and aircraft engine components for both military and civil use, to include fuel pumps. The lead plant in the production association is the Agregat Plant, co-located with the PO.

PRIMARY BUSINESS: Aviation

FORMER MINISTRY SUBORDINATION: Ministry of the Aviation Industry

APPROXIMATE EMPLOYMENT: Total: 8,000 Date: 1993

PRINCIPAL OFFICERS:

Vitaliy Nikolaevich Zavgorodniy, General Director
Ivan Petrovich Onufrenko, Plant Director

OWNERSHIP: N/A

YEAR ESTABLISHED: N/A

MILITARY PRODUCT LINES: Aircraft engine pumps

CIVIL PRODUCT LINES: Assemblies and components for civil aircraft; electrical centrifugal pumps; axial-piston pumps; axial camshaft pumps; cutting

instruments to include drills, taps, dies, counterbores, and milling cutters; thread-rolled heads, dies, and pulleys; "Raketa" vacuum cleaner; home lighting.

KEY TECHNOLOGIES/EQUIPMENT EMPLOYED: N/A

CONVERSION PROJECTS: N/A

HUMAN RESOURCES SUPPORT: N/A

OTHER RELEVANT INFORMATION: The Dnipropetrovsk Aggregate Plant Production Association has been or is due to be partially acquired by a large joint-stock company, Konversiya-Invest. Konversiya-Invest's purpose is to invest in defense-industrial enterprises with untapped potential. The city of Dnipropetrovsk was formerly known as Dnepropetrovsk.

ENTERPRISE NAME: DNIPROPETROVSK MACHINE BUILDING PLANT

ALTERNATE NAMES: Dniprovskiy Machine Building Plant

ADDRESS:

320059 Dnipropetrovsk, Ukraine
Vulitsya Budivelnikiv, 34
Dnipropetrovsk Machine Building Plant

Telephone: (011-380-562) 92-90-93, 93-20-77

Fax: (011-380-562) 92-85-93, 92-92-90

Telex: 148486 RADIO

GENERAL OVERVIEW: The Dnipropetrovsk Machine Building Plant manufactures air defense and space communication equipment. The enterprise is a leader in electronic and micro-electronics whose primary product is highly sensitive wide band radar receivers computerized central processing systems multi-channel system was established to produce electronic equipment, communication equipment, and medical equipment and instruments.

PRIMARY BUSINESS: Telecommunications equipment

FORMER MINISTRY SUBORDINATION: Ministry of the Communications Equipment Industry

APPROXIMATE EMPLOYMENT: 8,000

PRINCIPAL OFFICERS:

Mykhailo P. Filkin, General Director
Volodimir Pavlovich Gusev, Point of Contact

OWNERSHIP: State-owned.

YEAR ESTABLISHED: 1952

MILITARY PRODUCT LINES: Systems for air defense and space communications.

CIVIL PRODUCT LINES: Communication equipment; refrigerators and coolers; medical equipment, instruments and mechanical wrist watches.

KEY TECHNOLOGIES/EQUIPMENT EMPLOYED: Mechanical processing of

metals; production of printed circuit boards; punching; and galvanization.

CONVERSION PROJECTS: The "Zviazok" program for developing and improving refrigerating and cooling equipment.

This machine building plant has sought investment and equipment for the production of automatic digital telephone exchanges for up to 30,000 users with the goal of developing the telephone network in Ukraine.

HUMAN RESOURCES SUPPORT: N/A

The city of Dnipropetrovsk was formerly known in the Soviet Union as Dnepropetrovsk.

ENTERPRISE NAME: SOUTHERN MACHINE BUILDING PLANT PRODUCTION ASSOCIATION

ALTERNATE NAMES: Pivdenny Machine Building Plant, Yuzhmash, NPO "Yuzhnoye," "Yuzhnyy mashinostroitel'nyy zavod" PO, YUMZ

ADDRESS:

320008 Dnipropetrovsk, Ukraine
Vul. Krivorozhskaya, 1
Southern Machine Building Plant Production Association

Telephone: (011-380-562) 92-64-04, 92-39-72, 92,-68-46

Fax: (011-380-562) 92-75-34

Telex: 127404 OREKH

Teletype: 143443 OREKH

GENERAL OVERVIEW: The Southern Machine Building Plant Production Association is one of the largest missile and space conglomerates in the former Soviet Union and is the most active in marketing commercial space products and services. The association uses science-intensive technologies to produce more than 80 types of products.

PRIMARY BUSINESS: Space boosters, satellites

FORMER MINISTRY SUBORDINATION: Ministry of General Machine Building

APPROXIMATE EMPLOYMENT: 36,000

PRINCIPAL OFFICERS:

Yury Sergeyevich Aleksieyev, General Director
Mikola Mikolayevich Mezhuyev, Point of Contact
Stanislav M. Konjukhov, Design Bureau General Director

OWNERSHIP: Joint-stock company

YEAR ESTABLISHED: 1944

MILITARY PRODUCT LINES: Ballistic missiles, military satellites, and space boosters.

CIVIL PRODUCT LINES: The Energiya-Buran system; the SL-16 Zenit and SL-14 Tsiklon rockets; Okean satellites; small research satellites; tractors; wide-body

airplanes; trolley buses; products for the agroindustrial complex; various consumer goods and wind-powered generators.

KEY TECHNOLOGIES/EQUIPMENT EMPLOYED: Casting; stamping; solid stamping; welding; assembly; machining.

CONVERSION PROJECTS: This association seeks to develop liquid fuel accelerators based on the first stage of the Zenit rocket, and a commercial system called the Space Clipper for launch from the An-124, to be used for putting satellites in orbit. The association also plans to develop trolley buses, tractors, equipment for manufacturing chemical fibers, plants for processing waste and scrap containing precious metals, and equipment for the agroindustrial complex.

HUMAN RESOURCES SUPPORT: N/A

OTHER RELEVANT INFORMATION: The association is working with western firms to market the Zenit and Tsiklon rockets. The city of Dnipropetrovsk was formerly known in the Soviet Union as Dnepropetrovsk.

ENTERPRISE NAME: VESNA KONTSERN

ALTERNATE NAMES: Kontsern "Vesna", Vesna Production Association.

ADDRESS:

320700, Dnipropetrovsk, Ukraine
Leningradska Vulitsya, 68
Vesna Kontsern

Telephone: (011-380-562) 44-56-11

Telex: N/A

Teletype: 143424 ZVUK

Fax: (011-380-562) 44-24-73

GENERAL OVERVIEW: Vesna is one of the largest producers of consumer and industrial electronic products in Ukraine. It comprises several facilities, including the Vesna Design Bureau and the Dnipropetrovsk Vesna Radio Plant.

PRIMARY BUSINESS: Electronics

FORMER MINISTRY SUBORDINATION: Ministry of the Radio Industry

APPROXIMATE EMPLOYMENT: Total: 15,000 Date: 1994

PRINCIPAL OFFICERS:

Mykola Vasilyevich Maksimov, President

OWNERSHIP: State-controlled

YEAR ESTABLISHED: 1945

MILITARY PRODUCT LINES: Radio communications equipment

CIVIL PRODUCT LINES: Consumer and industrial electronic products including television sets, radio-tape recorders, and radio broadcasting equipment.

KEY TECHNOLOGIES/EQUIPMENT EMPLOYED: N/A

CONVERSION PROJECTS: N/A

HUMAN RESOURCES SUPPORT: N/A

OTHER RELEVANT INFORMATION: Vesna is a partner in the Uzbek-Ukrainian joint venture Nodira, which manufactures television sets. Vesna also seeks to establish a joint venture to produce TV receivers using American technology; its proposed input to the venture would be raw materials, production facilities, and an experienced labor force.

The city of Dnipropetrovsk was formerly known as Dnepropetrovsk.

DONETSK

ENTERPRISE NAME: DONETSK RUBBER CHEMICALS PLANT

ALTERNATE NAMES: Donetskiy zavod rezinokhimicheskikh izdeliy, DZRI

ADDRESS:

340013, Donetsk, Ukraine
Vulitsya Sofiiskaya, 1
Rbber Chemicals Products Plant

Telephone: (011-380-622) 51-54-18, 55-55-27

Telex: N/A

Teletype: N/A

Fax: (011-380-622) 52-22-53

GENERAL OVERVIEW: The Rubber Chemicals Products Plant produces munitions and reactive armor cassettes and is currently involved in a large program to reprocess Ukraine's outdated conventional ammunition stores.

PRIMARY BUSINESS: Munitions

FORMER MINISTRY SUBORDINATION: Ministry of Defense Industry

APPROXIMATE EMPLOYMENT: N/A

PRINCIPAL OFFICERS:

Zherzh Mikhailovich Ovchinnikov, General Director

OWNERSHIP: State-owned.

MILITARY PRODUCT LINES: Munitions, cassettes for explosive reactive armor.

CIVIL PRODUCT LINES: Ammonite (for explosives), seismic initiating charges, rubber seals, linoleum, children's carriages.

KEY TECHNOLOGIES/EQUIPMENT EMPLOYED: N/A

CONVERSION PROJECTS: The plant has proposed to produce filters for gasoline engines.

HUMAN RESOURCES SUPPORT: N/A

OTHER RELEVANT INFORMATION: The plant belongs to the Spivdruzhnist Association of enterprises which, in conjunction with the Joint Stock Company Aliant-Kyiv (a U.S.-Ukrainian joint venture), will dispose of and reprocess thousands of tons of outdated and potentially unstable conventional ammunition.

ENTERPRISE NAME: TOCHMASH JOINT STOCK COMPANY

ALTERNATE NAMES: Aktsionnernoye obshchestvo "Tochmash", AO Tochmash,
PO Tochmash

ADDRESS:

340007, Donetsk, Poselok Putilovka, Ukraine
Vulitsya Zavodskaya
Tochmash Joint Stock Company

Telephone: (011-380-622) 51-41-27

Telex: N/A

Teletype: 115230 FON

Fax: (011-380-622) 51-41-27

GENERAL OVERVIEW: The Tochmash Joint Stock Company produces a variety of industrial products, including mainly oil-field equipment and hydraulic equipment for trucks and construction machines. Currently, a major effort is underway to produce centrifuges for washing machines at the level of 10,000 units a year.

PRIMARY BUSINESS: Oil-field equipment.

FORMER MINISTRY SUBORDINATION: N/A

APPROXIMATE EMPLOYMENT: N/A

PRINCIPAL OFFICERS:

Yu. A. Kashenko, Director

V. N. Mayorov, Head of Marketing

S. Beshulya, Chief Engineer

OWNERSHIP:

Joint Stock Company

YEAR ESTABLISHED: Pre-1917 revolution

MILITARY PRODUCT LINES: Artillery-related production machinery

CIVIL PRODUCT LINES: Oil-field equipment; stainless steel industrial valves; agricultural tools and small agricultural machines, including hoe blades, fodder shredders, shuckers, and grinders; heating equipment; castings; hydraulic

cylinders for trucks, tractors and construction machines; medical sterilization equipment; hydraulic presses and metal-cutting machine tools; centrifuges, washing machines, pin dryers, kitchen utensils, desk lamps, and toys.

KEY TECHNOLOGIES/EQUIPMENT EMPLOYED: Computers and automated control systems.

CONVERSION PROJECTS: Small machines for farms

HUMAN RESOURCES SUPPORT: N/A

OTHER RELEVANT INFORMATION: Tochmash has been associated with the Temp Association, which combines 20 defense enterprises in the Donetsk region to develop, produce, and market new consumer goods.

FEODOSIYA

ENTERPRISE NAME: FEODOSIYA MORYE PRODUCTION ASSOCIATION

ALTERNATE NAMES: Feodosiiskoe Proizvodsvtennoe Ob'yedinenie "Morye",
Morye 26th CPSU Congress Production Association

ADDRESS:

334871, Primorskiy Village, Feodosiya, Ukraine
Feodosiya Morye Production Association

Telephone: (011-380-6562) 3-25-56, 6-97-02, 6-20-24, 3-22-22

Telex: 187125 KAFA

Teletype: 222616 YAKOR

Fax: (011-380-6562) 3-23-73

GENERAL OVERVIEW: The Feodosiya Morye Production Association builds several types of hydrofoils and formerly produced torpedo vessels for the Soviet military. It also produces shipboard accessories to include furniture and system components.

PRIMARY BUSINESS: Shipbuilding

FORMER MINISTRY SUBORDINATION: Ministry of the Shipbuilding Industry

APPROXIMATE EMPLOYMENT: Total: 5,300 Date: 1992

PRINCIPAL OFFICERS:

Leonid Semenovich Astakhov, General Director
V.A. Oleynik, Deputy Director for Commerce

OWNERSHIP: State-controlled

YEAR ESTABLISHED: N/A

MILITARY PRODUCT LINES: Small torpedo boats, hydrofoils

CIVIL PRODUCT LINES: Passenger and cargo hydrofoils, motorboats, sailboats, work boats, lifeboats, launches, yawls, shipboard furniture, accessories for hydraulic systems, adjustable screw propellers, water jets, ship filters, water freshening and heat exchanger equipment, turbogenerators, hoisting-transport equipment, aluminum alloy castings, steel drums, welded and corrosion-resistant

pipes, rubberized cloth, wooden water skis, washers, caps, keys, rings, pins, dowels, small automotive articles.

KEY TECHNOLOGIES/EQUIPMENT EMPLOYED: N/A

CONVERSION PROJECTS: N/A

HUMAN RESOURCES SUPPORT: The Morye Production Association provides heating for housing and sociocultural facilities in the Primorskiy village.

ENTERPRISE NAME: FEODOSIYA RESEARCH INSTITUTE OF AEROELASTIC SYSTEMS (RIAES)

ALTERNATE NAMES: Research and Design Institute of Aeroelastic Systems

ADDRESS:

334812, Feodosiya, Ukraine
Vul. Garnayeva, 85
Feodosiya Research Institute of Aeroelastic Systems

Telephone: (011-380-6562) 4-26-46, 4-26-47, 4-26-45
Fax: (011-380-6562) 4-26-55

GENERAL OVERVIEW: The Institute was a branch of the Moscow Institute of Aeroelastic Systems until 1990.

PRIMARY BUSINESS: Aviation component research

FORMER MINISTRY SUBORDINATION: Ministry of the Aviation Industry

APPROXIMATE EMPLOYMENT: 1,000

PRINCIPAL OFFICERS:

Pavel M. Nikolayev, Director
Konstantin A. Kuchugura, Point of Contact

OWNERSHIP: State-owned.

YEAR ESTABLISHED: 1961

MILITARY PRODUCT LINES: R&D for military aircraft components, production of aeroelastic systems.

CIVIL PRODUCT LINES: Aeroelastic sport systems.

KEY TECHNOLOGIES/EQUIPMENT EMPLOYED: A scientific research bureau; a research base with stands, a mechanical branch, a transport branch, an assembly branch, an An-12 aircraft, an Mi-6 helicopter.

CONVERSION PROJECTS: Production of internal combustion engines; aeroelastic sporting systems; balloons; light aircraft systems for medicine and transport.

IRPEN

ENTERPRISE NAME: IRPEN PEREMOGA COMBINE

ALTERNATE NAMES: Irpenskiy kombinat "Peremoga", Irpen Pobeda Combine, Peremoga Integrated Plant.

ADDRESS:

255710, Irpen, Kiev Oblast, Ukraine
Vulitsya 3-go Internatsionala, 152
Irpen Peremoga Combine

Telephone: (011-380-297) 5-75-36

Telex: N/A

Teletype: 132916 POBEDA

Fax: (011-380-297) 5-32-39

GENERAL OVERVIEW: The Irpen Peremoga Combine identifies itself as one of the largest producers of personal armored protective equipment in the CIS.

PRIMARY BUSINESS: Body armor

FORMER MINISTRY SUBORDINATION: N/A

APPROXIMATE EMPLOYMENT: Total: 1,200 Date: mid-1990s

PRINCIPAL OFFICERS:

Mikhail Alekseyevich Priymak, Director

OWNERSHIP: State-owned.

YEAR ESTABLISHED: 1975

MILITARY PRODUCT LINES: Body armor vests of various types, steel helmets.

CIVIL PRODUCT LINES: Protective vests for police and civilians, protective hunters' jackets, building materials including insulation.

KEY TECHNOLOGIES/EQUIPMENT EMPLOYED: N/A

CONVERSION PROJECTS: N/A

IVANO-FRANKIVSK

ENTERPRISE NAME: IVANO-FRANKIVSK RODON JOINT-STOCK COMPANY

ALTERNATE NAMES: Rodon Joint-Stock Company, AT "Rodon," AO "Rodon," Rodon Concern, Rodon Production Association, PO "Rodon."

ADDRESS:

284021, Ivano-Frankivsk, Ukraine
Vulitsya Vovchinetska, 225
Rodon Joint-Stock Company

Telephone: (011-380-3422) 6-48-41, 6-24-66
Fax: (011-380-3422) 6-49-57
E-mail: SVG @ RODON.Ivano-Frankivsk, UA
Telex: 292115 RODON, 234174 RODON
Teletype: 29130 LAZER

GENERAL OVERVIEW: The Rodon Joint-Stock Company is a diversified manufacturer of electronic products. The company consists of 15 factories.

PRIMARY BUSINESS: Electronics

FORMER MINISTRY SUBORDINATION: Ministry of the Electronics Industry

APPROXIMATE EMPLOYMENT: 6,500

PRINCIPAL OFFICERS:

Dmytro Illich Bidnyk, President
Volodymir G. Savanevski, Point of Contact, Business Relations
Anatoly O. Voronov, Point of Contact, Business Relations

OWNERSHIP: State-owned joint-stock company since November 1993. Privatization began in March 1994 through an open sale of shares (33 percent to the company's employees and 67 percent to the general public).

YEAR ESTABLISHED: 1971

MILITARY PRODUCT LINES: Integrated circuits for aircraft control systems.

CIVIL PRODUCT LINES: Integrated circuits, including standard logic, operation amplifiers, microprocessor units, single-chip microprocessors, LSI circuits for telephones and calculators, TV circuits, and microcircuits for consumer goods; finished products based on integrated circuits of inhouse production; telephones; remote control units for TV sets; blood pressure pulse monitors.

KEY TECHNOLOGIES/EQUIPMENT EMPLOYED: Microcircuit production using D100-mm silicon wafers and standard planar technologies CMOS, n-MOS, p-MOS, bipolar, and using photolithography (equipment of the Commonwealth of Independent States (CIS)); diffusion (CIS equipment); film deposition (CIS equipment); ion implantation (CIS equipment); testing (optical equipment partially from Japan and Germany, other equipment from the CIS); chip and circuit testing using automatic control systems (CIS equipment); assembly (chip setting, automatic welding, encapsulation, cutting-off, marking, tinning) using CIS equipment.

CONVERSION PROJECTS: The Rodon Joint-Stock Company plans to complete construction of a clean room for production of complex integrated circuits. It is seeking foreign joint ventures to assist in financing the construction and equipping of the facility. Complex goal-oriented programs: "Mikroelektronika-92," "Zviazok" (communications), "Computer Engineering Development," "Medicine."

The company has prepared a business plan for foreign investment for completing construction of the clean room and beginning production of high-speed integrated circuits for consumer goods, computer equipment, and control systems.

HUMAN RESOURCES SUPPORT: N/A

OTHER RELEVANT INFORMATION: The city of Ivano-Frankivsk was formerly known in the Soviet Union as Ivano-Frankovsk.

IZYUM

ENTERPRISE NAME: IZYUM INSTRUMENT-BUILDING PLANT

ALTERNATE NAMES: Priborostroitelnyy zavod imeni Dzerzhinskogo

ADDRESS:

313850, Izyum, Ukraine (1-U)
Prospekt Lenina, 66 (1-U)
Izyum Instrument-Building Plant

Telephone: (011-380-5743) 2-15-48, 2-14-64

Telex: N/A

Teletype: 625378 STRELA

Fax: (011-380-5743) 2-31-50

GENERAL OVERVIEW: The Izyum Instrument-Building Plant specializes in the production of a wide variety of optical instruments and products.

PRIMARY BUSINESS: Optical instruments

FORMER MINISTRY SUBORDINATION: Ministry of the Defense Industry

APPROXIMATE EMPLOYMENT: N/A

PRINCIPAL OFFICERS:

Oleg Nikolayevich Mychak, Director
I. S. Kostrikov, Deputy Chief Designer
V. Konradly, Deputy Chief Technologist

OWNERSHIP: State-owned.

MILITARY PRODUCT LINES: Optical equipment

CIVIL PRODUCT LINES: Surveyor transits and geodetic levels; densitometers; compasses; night vision glasses and sun glasses ; microscopes; lenses and castings for lenses photographic accessories.

KEY TECHNOLOGIES/EQUIPMENT EMPLOYED: N/A

CONVERSION PROJECTS: N/A

KERCH

ENTERPRISE NAME: ZALIV BUTOMY SHIPYARD

ALTERNATE NAMES: Zaliv Butomy Shipbuilding Plant, Sudostroitelnyy zavod "Zaliv" imeni B.Ye. Butomy, Kamysh Burun Shipyard.

ADDRESS:

334510, Kerch, Ukraine
Vulitsya Tankistov, 1
Zaliv Butomy Shipyard
Telephone: (011-380-6561) 3-40-01, 3-30-55
Telex: 187111 VOLNA
Teletype: 8333 ZALIV
Fax: N/A

GENERAL OVERVIEW: The Zaliv Butomy Shipyard, which has produced Krivak-class frigates since 1969, now produces mainly oil tankers in classes varying from 60,000 to 150,000 tons displacement.

PRIMARY BUSINESS: Oil tankers

FORMER MINISTRY SUBORDINATION: Ministry of the Shipbuilding Industry

APPROXIMATE EMPLOYMENT: N/A

PRINCIPAL OFFICERS:

Nikolay Anatolevich Volkov, Director
Valeriy Viktorovich Braguta, Chief Engineer

OWNERSHIP: State-owned

YEAR ESTABLISHED: N/A

MILITARY PRODUCT LINES: Krivak-class frigates.

CIVIL PRODUCT LINES: Oil tankers, ice-breaking transport ships, scientific-research vessels, dry cargo barges, repair ships; turbogenerators; floating power stations and floating cranes; heat exchangers; desalinization apparatus; roll stabilizers; electrochemical facing equipment; equipment for installing shipboard instrumentation; containers; bunkers; shafts, bearings, bushings, and connectors; tanks for liquified gas; miscellaneous fire fighting equipment;

furniture, including beds and day beds, and furniture fasteners.

KEY TECHNOLOGIES/EQUIPMENT EMPLOYED: Zaliv contracted with a foreign supplier in 1992 for mechanized flow lines with a capacity for 30,000 tons of finished panels and three-dimensional sections weighing up to 320 tons, and a dock transport system and elevator capable of moving blocks weighing up to 2000 tons. Zaliv has contracted with another foreign supplier for highly mechanized cleaning and painting equipment, and lighting and ventilation systems.

CONVERSION PROJECTS: N/A

HUMAN RESOURCES SUPPORT: Housing

OTHER RELEVANT INFORMATION: Zaliv is part of a joint venture with the Pepsi Company, called the Ukranian Development Corporation (UDC), that was established in 1992 to assist in the mechanization and conversion of the Zaliv plant from naval to civil vessels. Part of the shipyard will be converted also for the production of prefabricated Pizza Hut restaurants, which are owned by PepsiCo International.

KHARKIV

ENTERPRISE NAME: KHARKIV AVIATION PRODUCTION ASSOCIATION

ALTERNATE NAMES: Kharkovskoye aviatsionnoye PO, Kharkov Aircraft Plant, Kharkov Lenin Komsomol Aviation Production Association.

ADDRESS:

310023, Kharkiv, Ukraine
Vulitsya Sumskaya
Kharkiv Aviation Production Association

Telephone: (011-380-572) 43-19-85

Telex: N/A

Teletype: 125268 KRAB

Fax: (011-380-572) 47-80-01

GENERAL OVERVIEW: The Kharkiv Aviation Production Association specializes in the production of transport aircraft, and has produced several models of Tupolev-designed aircraft including the Tu-104 Camel, -124 Cookpot, and -134 Crusty. Most recently, the association has produced Antonov-designed models An-72 and An-74 twin turboprop transports with both civil and military applications. The Kharkiv association is slated to produce the An-180 regional airliner, which is currently in development.

PRIMARY BUSINESS: Transport aircraft

FORMER MINISTRY SUBORDINATION: Ministry of the Aviation Industry

APPROXIMATE EMPLOYMENT:

PRINCIPAL OFFICERS:

A. K. Myalitsa, General Director

OWNERSHIP: State-owned

YEAR ESTABLISHED: 1926

MILITARY PRODUCT LINES: An-72/74 Coaler military transport

CIVIL PRODUCT LINES: Coaler civil variants; consumer goods including baby

carriages, folding beds, tennis rackets, children's sleds, and household gas stoves.

KEY TECHNOLOGIES/EQUIPMENT EMPLOYED: N/A

CONVERSION PROJECTS: N/A

HUMAN RESOURCES SUPPORT: N/A

OTHER RELEVANT INFORMATION: A French Company, Renault, has expressed interest in using idle space at the Kharkiv Aircraft Plant to produce the Renault-19 automobile.

The city of Kharkiv was formerly known as Kharkov.

**ENTERPRISE NAME: KHARKIV DZERZHINSKIY MACHINEBUILDING
PRODUCTION ASSOCIATION**

ALTERNATE NAMES: Kharkovskoye Mashinostroitelnoye Proizvodstvennoe Ob'yedineniye imeni F.E. Dzerzhinskogo, KhNPO FED, Dzerzhinskiy Machine Building Plant.

ADDRESS:

310023, Kharkiv, Ukraine
Vulitsya Sumskaya, 132
Kharkiv Dzerzhinskiy Machinebuilding Production Association

Telephone: (011-380-572) 43-09-00

Telex: N/A

Teletype: N/A

Fax: (011-380-572) 43-09-00

GENERAL OVERVIEW: The Kharkiv Dzerzhinskiy Machinebuilding Production Association produces photo equipment such as cameras and slide projectors, and parts for aircraft equipment.

PRIMARY BUSINESS: Aircraft parts

FORMER MINISTRY SUBORDINATION: Ministry of Aviation Industry

APPROXIMATE EMPLOYMENT: N/A

PRINCIPAL OFFICERS:

Vadim Petrovich Makarenko, General Director

OWNERSHIP: State-controlled

YEAR ESTABLISHED: N/A

MILITARY PRODUCT LINES: Aircraft components

CIVIL PRODUCT LINES: Handheld cameras, slide projectors, pruning shears.

KEY TECHNOLOGIES/EQUIPMENT EMPLOYED: Thermoplastic automatic machinery, testing stands.

CONVERSION PROJECTS: N/A

HUMAN RESOURCES SUPPORT: N/A

OTHER RELEVANT INFORMATION: The city of Kharkiv was formerly known as Kharkov.

ENTERPRISE NAME: KHARKIV KHARTRON PRODUCTION ASSOCIATION

ALTERNATE NAMES: PO "Khartron," NPO "Elektropribor," Kharkiv Elektropribor Plant,
Scientific Production Association "Khartron"

ADDRESS:

310070 Kharkiv, Ukraine
Vulitsya Akademika Proskura, 1
Khartron Production Association

Telephone: (011-7-0572) 44-01-68, 44-50-90

Fax: (011-7-0572) 43-16-77

Electronic mail: root%rocket.Kharkov.uarelay.USSR.E.U.net

Telex: 115242 GLAVA

Teletype: 125381 PILOT

GENERAL OVERVIEW: Consisting of six design bureaus and three production plants, the Khartron Production Association is one of the largest manufacturers of electronic equipment for missiles and spacecraft. Khartron's main activities include the design and production of control systems for missiles and spacecraft, nuclear power stations, and oil and gas pipelines.

PRIMARY BUSINESS: Control systems

FORMER MINISTRY SUBORDINATION: Ministry of General Machine Building

APPROXIMATE EMPLOYMENT: 10,000

PRINCIPAL OFFICERS:

Yakov Yeinovich Eizenberg, General Director
Aleksandr Vladimirovich Beck, Marketing Director

OWNERSHIP: State-owned. Conversion to an open stock company is planned.

YEAR ESTABLISHED: 1915

MILITARY PRODUCT LINES: Control systems for missiles, including the SS-18 and the SS-19.

CIVIL PRODUCT LINES: Control systems for nuclear powerplants; commercial space projects; micro- and mini-hydroelectric stations; oil and gas pipelines; gas-pumping

stations; medical equipment; auto electronics; radio-guided and inertial toys; software; control and testing modules; universal control panels; electronic memory units; radio-controlled toys; electronic voting systems; telephones; and computer games.

KEY TECHNOLOGIES/EQUIPMENT EMPLOYED: Research equipment for control system tests; instrumental production; personal computer production.

CONVERSION PROJECTS: Khartron has begun producing medical equipment, automotive electronics, and consumer goods and is looking for a joint venture to produce oil and gas extraction equipment, medical equipment, machinery for electric power stations, and consumer goods. Khartron and its U.S. partner Westinghouse received the first Ukrainian assistance award under the Nunn-Lugar program for a project in the area of control systems for nuclear power plants. In 1993, Khartron began assembling color television sets as part of the "Monte-Lun" Chinese-Ukrainian joint venture. Khartron has also produced components for a U.S. computer firm. In addition, this association is planning to implement a new project, the "Energiya," under the name of "Kupon." The project will link banks with satellite communication.

HUMAN RESOURCES SUPPORT: N/A

OTHER RELEVANT INFORMATION: This association completed the first Ukrainian Space Communication Station. In addition, financial assistance from the Ukrainian-Siberian Investment Corporation joint-stock company has made conversion possible.

The city of Kharkiv was formerly known in the Soviet Union as Kharkov.

ENTERPRISE NAME: KHARKIV KOMMUNAR PRODUCTION ASSOCIATION

ALTERNATE NAMES: PO "Kommunar," Communard Production Association,
Elektropribor Plant

ADDRESS:

310681 Kharkiv, Ukraine
Vulitsya Rudika, 13
Kommunar Production Association

Telephone: (011-380-572) 43,23-63, 44-78-51

Fax: (011-380-572) 44-01-98

Teletype: 125273 SINTEZ

GENERAL OVERVIEW: Kommunar was established to produce and service automated control systems for production processes. Kommunar has produced onboard and ground-based control systems for missiles and space applications. The main production facility and special design bureau of the Kommunar Production Association are in Kharkiv. Five affiliated production facilities are located elsewhere in Kharkiv Oblast (Province).

PRIMARY BUSINESS: Control systems

FORMER MINISTRY SUBORDINATION: Ministry of General Machine Building

APPROXIMATE EMPLOYMENT: 18,000

PRINCIPAL OFFICERS:

Oleksandr Oleksandrovich Asmolov, Director
Yury Mykolayevich Radchenko, Point of Contact

OWNERSHIP: State-owned.

YEAR ESTABLISHED: 1927

MILITARY PRODUCT LINES: Missile and space guidance and control systems; relays for satellites.

CIVIL PRODUCT LINES: Radios; televisions; systems control equipment and instruments; assemblies for transportation facilities and refineries; cardioanalyzers; meters; welding equipment; medical equipment; television remote controls; electrical fuel-control systems for automobiles; sets of equipment for urban communication

facilities.

KEY TECHNOLOGIES/EQUIPMENT EMPLOYED: Casting production; galvanization; punching; mechanical processing; production of printed circuit boards; instrumental manufacturing.

CONVERSION PROJECTS: Problem-oriented complexes for the production of plastic press-forms; cardioanalyzers; meters; welding equipment; medical equipment. The plant began development of pipeline control systems, but work was halted due to a shortage of funds.

HUMAN RESOURCES SUPPORT: N/A

OTHER RELEVANT INFORMATION: The enterprise has access to state budget financing and credits for conversion programs.

The city of Kharkiv was formerly known in the Soviet Union as Kharkov.

ENTERPRISE NAME: KHARKIV MALYSHEV PLANT

ALTERNATE NAMES: Kharkovskoye PO "Zavod imeni V.L. Malysheva," Kharkovskiy zavod mashinostroyeniya imeni V.L. Malysheva, Malyshev Tank Plant

ADDRESS:

310001 Kharkiv, Ukraine
Vulitsya Plekanivska, 126
Kharkiv Malyshev Plant

Telephone: (011-380-572) 50-31-01, 27-97-82

Fax: (011-380-572) 27-48-23

Telex: 115146 VOLAN

Teletype: 125266, 12567 GROM

Electronic mail: root%rocket.Kharkov.uarelay.USSR.E.U.net

Telex: 115146 VOLAN

Teletype: 1254266, 125267 GROM

GENERAL OVERVIEW: The Kharkiv Malyshev Plant was once one of the largest tank plants in the USSR. The plant was established to produce various types of transportation equipment and diesel engines. Today the plant specializes in the production of locomotives, machinery for the energy industry and agriculture, and engines for small-sized buses and cars.

PRIMARY BUSINESS: Military tanks and locomotives

FORMER MINISTRY SUBORDINATION: Ministry of the Defense Industry

APPROXIMATE EMPLOYMENT: 18,000

PRINCIPAL OFFICERS:

Yuriy Ya. Mirgorodsky, General Director
Anatoliy Stepenko, Economic Relations Department

OWNERSHIP: State-owned.

YEAR ESTABLISHED: 1895

MILITARY PRODUCT LINES: Armored vehicles.

CIVIL PRODUCT LINES: Locomotives; agricultural equipment; minitractors; automobile engines; four-wheel cargo motorcycles; gas tank equipment; diesels and

diesel generators; household furniture; household tools; special boring machines for miners; buses; tents; tracklaying highway construction vehicles; energy-related equipment; sporting equipment; artificial Christmas trees.

KEY TECHNOLOGIES/EQUIPMENT EMPLOYED: Casting; galvanization; mechanical and instrumental production.

CONVERSION PROJECTS: Diesel engines (8-70 hp. and 250-360 hp.); diesels for airfield equipment; combines for coal mining. In conjunction with a plant in Lviv, Malyshev Plant produces buses and energy-related equipment. Malyshev seeks a U.S. partner to launch production of low-power diesel engines, diesel generators, minitractors, and automobiles.

HUMAN RESOURCES SUPPORT: Kindergartens; apartments for the workers at this plant.

The city of Kharkiv was formerly known in the Soviet Union as Kharkov.

ENTERPRISE NAME: KHARKIV MONOLIT PRODUCTION ASSOCIATION

ALTERNATE NAMES: Kharkovskoye PO "Monolit," Shevchenko Plant, "Monolit"
Production Amalgamation

ADDRESS:

310644 Kharkiv, Ukraine
Vulitsya Oktyabrskaya Revolutsia, 99
Kharkiv Monolit Production Association

Telephone: (011-380-572) 27-56-80, 22-61-81
Fax: (011-380-572) 27-56-80, 22-47-23, 23-11-60
Telex: 115189 RUTA, 311027 RUTA
Teletype: 125272 RUTA

GENERAL OVERVIEW: The Kharkiv Monolit Production Association comprises some 20 plants. Monolit produces central control stations, telecommunications systems, automatic control systems for nuclear and thermal stations, and medical equipment. Monolit is divided into five distinct production-oriented working groups.

PRIMARY BUSINESS: Control systems

FORMER MINISTRY SUBORDINATION: Ministry of General Machine Building

APPROXIMATE EMPLOYMENT: 13,000

PRINCIPAL OFFICERS:

Yury Ivanovich Zagorovsky, Director General
Aleksandr Dmitrievich Khvorost, Point of Contact

OWNERSHIP: State-owned; joint-stock company in the future.

YEAR ESTABLISHED: N/A

MILITARY PRODUCT LINES: The plant is involved in a study to recode the guidance system of the strategic missiles in Ukraine. It manufactures micro-miniature on-board computers and record-keepers for the MIR spacecraft. The association makes control systems for aircraft and elements for control systems.

CIVIL PRODUCT LINES: Electronic equipment for space programs; control and monitoring systems; turbogenerators; turbine control systems for nuclear plants; airport ILS systems; solid state automatic telephone switching equipment; medical equipment,

including ultrasound equipment; liquid analyzers; electronic computing and control equipment; locks; space heaters; tape recorders; consumer audio electronic products; and a wide variety of other consumer goods.

KEY TECHNOLOGIES/EQUIPMENT EMPLOYED: Thick-film technologies for printed circuit boards. Equipment for machining; metal working; sheet metal fabrication; electroplating; printed circuit board manufacture; microelectronics manufacture; and mechanical, electrical, and electronic assembly.

CONVERSION PROJECTS: Kharkiv Monolit Plant is looking for a joint venture partner to begin production of automatic telephone exchanges; electronic equipment for space applications; turbogenerator monitoring and control systems for nuclear or fossil-fuel power plants; medical ultrasound equipment; tape recorders; tuner amplifiers; audio speakers; and consumer audio electronic products. Other conversion products include dosimeters; illumination regulators; and energy equipment.

HUMAN RESOURCES SUPPORT: N/A

OTHER RELEVANT INFORMATION: Kharkiv Monolit's control systems for nuclear reactors are used in power stations in Bulgaria and China.

The city of Kharkiv was formerly known in the Soviet Union as Kharkov.

ENTERPRISE NAME: KHARKIV RADIO RELAY PRODUCTION ASSOCIATION

ALTERNATE NAMES: Kharkovskoye Proizvodstvennoye obedineniye
"Radiorele," Kharkovskoye PO Radiorele

ADDRESS:

310105, Kharkiv, Ukraine
Prospekt Gagarina, 181
Kharkiv Radio Relay Plant

Telephone: (011-380-51) 52-51-04, 51-77-74
Teletype: 311238 TOPOL
Fax: (011-380-51) 52-40-47

GENERAL OVERVIEW: The Kharkiv Radio Relay Production Association produces components for communication equipment including electromagnetic relays, optical fiber switches and connectors.

PRIMARY BUSINESS: Communication equipment components.

FORMER MINISTRY SUBORDINATION: Ministry of Communications.

APPROXIMATE EMPLOYMENT: N/A

PRINCIPAL OFFICERS:

Vadim Yemelyanovich Bozhko, Director

OWNERSHIP: State-owned

YEAR ESTABLISHED: N/A

MILITARY PRODUCT LINES: Communication equipment components

CIVIL PRODUCT LINES: Electromagnetic relays, switches, circuit breakers, indoor antennas, electric controls for air conditioners.

KEY TECHNOLOGIES/EQUIPMENT EMPLOYED: N/A

CONVERSION PROJECTS: N/A

OTHER RELEVANT INFORMATION: The city of Kharkiv was formerly known as Kharkov.

ENTERPRISE NAME: KHARKIV TRACTOR PLANT

ALTERNATE NAMES: Kharkovskiy traktornyy zavod, Kharkovskiy Tractor Factory named for S. Ordzhonikidze, HTZ

ADDRESS:

310007, Kharkiv-7, Ukraine
Prospekt Moskovskiy, 275
Kharkiv Tractor Plant

Telephone: (011-380-572) 93-00-69, 94-17-60, 95-26-42, 93-31-81, 95-77-78
Fax: (011-380-572) 93-91-5, 94-17-60
Telex: 311030 TRAK
Teletype: 125221 TRAK

GENERAL OVERVIEW: The Kharkiv Tractor Plant annually produces a large number of diesel-powered 150 horsepower tracked and wheeled tractors for agricultural and industrial uses. The plant also produces 8- and 10-horsepower tractors for garden use.

PRIMARY BUSINESS: Tractors

FORMER USSR MINISTRY SUBORDINATION: Ministry of Tractor and Agricultural Machine Building

APPROXIMATE EMPLOYMENT: 20,000

PRINCIPAL OFFICERS:

Valentin Vasilyevich Biblik
Mykola Vasilyevich Golovko, Point of Contact

OWNERSHIP: State-owned.

YEAR ESTABLISHED: 1931

MILITARY PRODUCT LINES: Armored vehicles and prime movers.

CIVIL PRODUCT LINES: Since 1990 the Kharkiv Tractor Plant has been producing small gasoline-engine tractors for farm and enterprise use. It produces tracked tractors (T-150); wheeled tractors (T-150K); mini-tractors; tractor spare parts; camshafts; oil filters; lock articles; fuel pumps; and components for Lada engines.

KEY TECHNOLOGIES/EQUIPMENT EMPLOYED: Casting production; instrumental

and mechanical production; cold punching; galvanization.

CONVERSION PROJECTS: The manufacture of complexes, machinery, and equipment for agriculture and the food-processing industry.

HUMAN RESOURCES SUPPORT: N/A

OTHER RELEVANT INFORMATION: The plant exports tractors and spare parts.

ENTERPRISE NAME: KHARKIV TURBOATOM SCIENTIFIC PRODUCTION ASSOCIATION

ALTERNATE NAMES: NPO "Turboatom," Research and Production Association of Nuclear Plant Turbine Engineering, Kharkov Turbine Plant

ADDRESS:

310323 Kharkiv, Ukraine
Prospekt Moskovskiy, 199
Turboatom Scientific Production Association

Telephone: (011-380-572) 90-22-92, 90-22-49, 92-03-74, 90-22-37
Fax: (011-380-572) 26-40-48
Telex: 115124 TINA, 311032 TINA
Teletype: 125130 DISK

GENERAL OVERVIEW: The Turboatom Scientific Production Association has been producing turbine engines for civil and military use for more than 50 years. The production association designs and manufactures steam, gas, and hydraulic turbines for powerplants.

PRIMARY BUSINESS: Turbine engines

FORMER MINISTRY SUBORDINATION: Ministry of Heavy, Power, and Transport Machine Building

APPROXIMATE EMPLOYMENT: 8,000

PRINCIPAL OFFICERS:

Anatoly Aleksandrovich Bugayets
Yevgeny Segeyevich Belinsky, Point of Contact
Mikhail Antonovich Virchenko, Chief Engineer

OWNERSHIP: State-owned.

YEAR ESTABLISHED: N/A

MILITARY PRODUCT LINES: Gas turbines for nuclear power plants; Gas turbines for military jet aircraft and reduction gears for diesel engines used on military ships.

CIVIL PRODUCT LINES: Steam turbines; gas turbines; hydroturbines; equipment for hydro structures; hydrolocks; parts for turbines; powerplant equipment; dining hall

equipment; household knives; toys; stainless steel tableware.

KEY TECHNOLOGIES/EQUIPMENT EMPLOYED: Casting; galvanization; mechanical production; tool production.

ENTERPRISE NAME: PROTON PRODUCTION ASSOCIATION

ALTERNATE NAMES: Proizvodstvennoe Obyedineniye "Proton",
PO Proton.

ADDRESS:

310126, Kharkiv, Ukraine
Ploshcha Vosstaniya, 7/8
Proton Production Association

Telephone: (011-380-572) 21-68-82, 21-25-50, 21-15-48 (design bureau)

Telex: N/A

Teletype: 125203 BURUN

Fax: (011-380-572) 21-25-54

GENERAL OVERVIEW: Proton designs and produces radio communications equipment and also consumer radioelectronic equipment. The Production Association includes the Proton Central Design Bureau and the Kharkiv Radio Plant.

PRIMARY BUSINESS: Electronics

FORMER MINISTRY SUBORDINATION: Ministry of the Radio Industry

APPROXIMATE EMPLOYMENT: N/A

PRINCIPAL OFFICERS:

Aleksandr Isaakovich Bulychev, General Director

Aleksandr Fediseyevich Kocherga, director of the design bureau

OWNERSHIP: State-controlled

YEAR ESTABLISHED: N/A

MILITARY PRODUCT LINES: Radio communications equipment

CIVIL PRODUCT LINES: Equipment for radio communications, radio broadcasting, and television; consumer radioelectronic equipment including radio receivers, tape recorders and tape decks, cassette tape recorders, and accessories

KEY TECHNOLOGIES/EQUIPMENT EMPLOYED: N/A

CONVERSION PROJECTS: N/A

KHERSON

ENTERPRISE NAME: DNEPR CONCERN

ALTERNATE NAMES: Kontsern "Dnepr", PO Dnepr. Key facilities:
Kherson Semiconductor Devices Plant, Special Design Bureau.

ADDRESS:

325026, Kherson, Ukraine
Vulitsya Rabochaya, 66
Dnepr Concern

Telephone: (011-380-5522) 2-65-80, 2-65-81, 6-45-81 (Special
Design Bureau)

Telex: N/A

Teletype: 273140 ALMAZ

Fax: N/A

GENERAL OVERVIEW: The Dnepr Concern produces semiconductors including diodes, transistors, and integrated circuits in a variety of types. The firm also produces microwave vacuum tubes and electro-acoustical apparatus.

PRIMARY BUSINESS: Semiconductors

FORMER MINISTRY SUBORDINATION: Ministry of the Electronics Industry

APPROXIMATE EMPLOYMENT: Total: 11,500 Date: 1992

PRINCIPAL OFFICERS:

Valeriy O. Voitenko, Director General
Petr Ivanovich Zozula, Director of the design bureau

OWNERSHIP: State-controlled

YEAR ESTABLISHED: N/A

MILITARY PRODUCT LINES: Semiconductors

CIVIL PRODUCT LINES: Diodes (including impulse types), transistors, integrated circuits, acoustical amplifiers, electro-musical instruments, toys, hunting and fishing accessories, and

artistic supplies.

KEY TECHNOLOGIES/EQUIPMENT EMPLOYED: N/A

CONVERSION PROJECTS: N/A

HUMAN RESOURCES SUPPORT: N/A

ENTERPRISE NAME: KHERSON SHIPYARD

ALTERNATE NAMES: Khersonskiy sudostroitelnyy zavod, Kherson Shipbuilding Plant.

ADDRESS:

325019, Kherson, Ukraine
Karantinnyy ostrov
Kherson Shipyard

Telephone: (011-380-5522) 7-00-22, 7-06-50, 7-06-09
Telex: N/A
Teletype: 273114 PLAMYA
Fax: N/A
E-Mail: N/A

GENERAL OVERVIEW: The Kherson Shipyard produces tankers (11-U), cargo ships, large drydocks, and a variety of other sea-going craft.

PRIMARY BUSINESS: Commercial ships

FORMER MINISTRY SUBORDINATION: Ministry of the Shipbuilding Industry.

APPROXIMATE EMPLOYMENT: Total: 11,000 Date: 1993

PRINCIPAL OFFICERS:

Vladimir Vasilyevich Volkov, Director

OWNERSHIP: State-owned

YEAR ESTABLISHED: N/A

MILITARY PRODUCT LINES: Landing ships; floating drydocks for dismantling nuclear powered submarines.

CIVIL PRODUCT LINES: Commercial sea-going vessels, including cargo ships, container ships, tankers, and icebreakers; floating drilling rigs; floating drydocks. The shipyard also makes a wide variety of miscellaneous items: ship accessories and equipment; hoist-transport equipment for shipbuilding ways; parts and subassemblies for subcompact automobiles, motor scooters, motorbikes, and motorcycles; motor vehicle garage equipment; plastic articles for household use; metal saws; metal beds and couches; kitchen tables and cabinets; crates; power tools.

KEY TECHNOLOGIES/EQUIPMENT EMPLOYED: N/A

CONVERSION PROJECTS: N/A

HUMAN RESOURCES SUPPORT: N/A

OTHER RELEVANT INFORMATION: The Kherson Shipyard was formerly part of the Kherson Shipyard Production Association that was dissolved in 1993.

KIROVOHRAD

ENTERPRISE NAME: RADIY PRODUCTION ASSOCIATION

ALTERNATE NAMES: Proizvodstvennoye obedineniye "Radiy", PO Radiy, Kirovohrad
Radio Articles Plant (Korovogradskiy zavod radioizdeliy).

ADDRESS:

316050, Kirovohrad, Ukraine
Vulitsya Geroyev Stalingrada, 29
Radiy Production Association

Telephone: (011-380-522) 23-20-50, 23-22-42, 23-52-28

Telex: 131747 TRIOD

Teletype: 282119 TRIOD

Fax: (011-380-522) 23-43-64

E-Mail: N/A

GENERAL OVERVIEW: The Radiy Production Association produces communications equipment, specializing in radio and TV broadcasting equipment. The Association includes the Kirovohrad Radio Articles Plant.

PRIMARY BUSINESS: Communications equipment

FORMER MINISTRY SUBORDINATION: Ministry of the Radio Industry

APPROXIMATE EMPLOYMENT: N/A

PRINCIPAL OFFICERS:

Leonid Denisovich Bondarenko, Director

OWNERSHIP: State-owned.

YEAR ESTABLISHED: N/A

MILITARY PRODUCT LINES: Radiocommunications equipment.

CIVIL PRODUCT LINES: Radio and television broadcasting installations; television relay equipment; sound amplification devices, including linear amplifiers; video recording and reproduction equipment, telephone apparatus; radio-measuring instruments; mixers, antennas, microphones and other radio parts and subassemblies.

KEY TECHNOLOGIES/EQUIPMENT EMPLOYED: N/A

CONVERSION PROJECTS: N/A

HUMAN RESOURCES SUPPORT: N/A

KHMELNITSKIY

ENTERPRISE NAME: ZARNITSA PRODUCTION ASSOCIATION

ALTERNATE NAMES: Proizvodstvennoye obedineniye "Zarnitsa", PO Zarnitsa.

ADDRESS:

280015, Khmelnytskyi, Ukraine
Prospekt Mira, 99-101
Zarnitsa Production Association

Telephone: (011-380-3800) 3-01-01, 3-53-54 (Temp plant), 3-81-18
(design bureau), 3-58-33, 3-00-27 (Temp plant).

Telex: 131323

Teletype: 291153 GRANIT

Fax: N/A

E-Mail: N/A

GENERAL OVERVIEW: The Zarnitsa Production Association specializes in the development and manufacture of production machinery for printed-circuit boards and integrated circuits. It includes the Temp Plant and the Titan Special Design Bureau.

PRIMARY BUSINESS: Semiconductor production machinery

FORMER MINISTRY SUBORDINATION: Ministry of the Radio Industry

APPROXIMATE EMPLOYMENT: Total: 3,000 Date: 1986

PRINCIPAL OFFICERS:

Vladimir Grigorevich Debelenko, General Director
Stanislav Maryanovich Vilinskiy, Director of design bureau

OWNERSHIP: State-owned.

YEAR ESTABLISHED: N/A

MILITARY PRODUCT LINES: Semiconductor production equipment

CIVIL PRODUCT LINES: Other industrial production machinery for the radio and communications equipment industries, welding

equipment, mixers.

KEY TECHNOLOGIES/EQUIPMENT EMPLOYED: N/A

CONVERSION PROJECTS: N/A

HUMAN RESOURCES SUPPORT: N/A

KRAMATORSK

ENTERPRISE NAME: ALFA STOCK COMPANY

ALTERNATE NAMES: Alfa Plant, Zavod Alfa

ADDRESS:

343923, Kramatorsk, Ukraine
Vulitsya Yubileynaya, 70
Alfa Stock Company

Telephone: (011-380-6264) 4-02-81, 4-12-68

Telex: N/A

Teletype: 330035 ZUBR

Fax: N/A

E-Mail: N/A

GENERAL OVERVIEW: The Alfa Stock Company produces a variety of electronic components to include laser equipment, tubes, resistors, and integrated circuits. Before the breakup of the Soviet Union, the Alfa Stock Company was part of Moscow's Electric Lamp Plant Production Association.

PRIMARY BUSINESS: Electronics

FORMER MINISTRY SUBORDINATION: Ministry of Electronics Industry

APPROXIMATE EMPLOYMENT: N/A

PRINCIPAL OFFICERS:

Evgenniy Stepanovich Gusin, General Director

OWNERSHIP: State-owned

YEAR ESTABLISHED: N/A

MILITARY PRODUCT LINES: Electronic components.

CIVIL PRODUCT LINES: Laser radiators, laser components, receiver-amplifying lamps, generator lamps, modulating lamps, high voltage cathode ray tubes, indicator tubes, oscillograph tubes, constant and variable resistors, thermoresistors, magnetic resistors, integrated circuits, digital-to-analog converters, lighting equipment, chandeliers, incandescent lamps for transportation, mercury-quartz lamps with

correcting chromaticity, high pressure gas discharge lamps, greenhouse lighting, photo equipment, agricultural equipment, cardboard boxes and corrugated cartons, dishes, crystal items.

KEY TECHNOLOGIES/EQUIPMENT EMPLOYED: N/A

CONVERSION PROJECTS: The Alfa Stock Company, along with several other electronic component plants, is part of a project to begin production of over 50 types of energy-efficient lighting sources.

HUMAN RESOURCES SUPPORT: N/A

OTHER RELEVANT INFORMATION: N/A

**ENTERPRISE NAME: NOVOKRAMATORSK MACHINE BUILDING PLANT
PRODUCTION ASSOCIATION**

ALTERNATE NAMES: PO "Novokramatorskiy mashinostroitel'nyy zavod,"
Novokramatorsk Machine Building Works, Kramatorsk Machine Building Plant
Production Association, Obyedineniye Novokramatorskiy mashinostroitel'nyy zavod
(NKMZ), Novokramatorsk Machine Building Plant Leasing Company, Novokramatorsk
Heavy Machine Building Plant.

ADDRESS:

343905 Kramatorsk, Donetsk Oblast, Ukraine
Vulitsya Ordzhonikidze NKMZ
Novokramatorsk Machine Building Plant Production Association

Telephone: (011-380-6264) 4-23-28, 6-11-58, 4-88-00, 4-88-02, 4-89-77
Fax: (011-380-6264) 4-22-49
Telex: 115137 GROM
Teletype: 330171 GROM

GENERAL OVERVIEW: Novokramatorsk is one of the basic suppliers of metallurgical
and mining equipment in the former Soviet Union. This plant also produces heavy
forging and pressing equipment; non-ferrous metals; large-sized excavators; equipment
for hot stamping; crank presses; forging machines; and mill rolls.

PRIMARY BUSINESS: Machine building

FORMER MINISTRY SUBORDINATION: Ministry of Heavy and Transport Machine
Building

APPROXIMATE EMPLOYMENT: 26,000

PRINCIPAL OFFICERS:

Georgy Markovich Skudar, Director
Yury Vladimirovich Chibisov, Chief of Planning and Economic Management

OWNERSHIP: Joint-stock company since April 1994.

YEAR ESTABLISHED: 1934

MILITARY PRODUCT LINES: Materials for the "Buran-Energiya" space complex;
propeller shafts; hydraulic stamping superpress; hydrostatic testing chambers; obstacle
clearing vehicles; and gravity bombs.

CIVIL PRODUCT LINES: Semi-continuous and continuous rolling mills for hot rolled strip steel; plate mills; mills for hot and cold rolled aluminum strips; electronic excavators; ore-crushing mills; walking draglines; pit winding gears; universal cranks presses; stamping presses; forging presses; mixers; large excavators; mining equipment; large capacity cage lifts; heavy engineering equipment; and plasma-generators/lathes.

KEY TECHNOLOGIES/EQUIPMENT EMPLOYED: Lathes; vertical boring and turning machines; planer-type milling machines; gear-milling machines; deep-hole-drilling machines and planner-type milling machines; electroslag melting furnaces; liquid-flow self-hardening mixture method; automatic argon arc and welding; high-speed trepanning drilling; roll hardening and the electro-hydraulic cleaning of castings; industrial robots.

CONVERSION PROJECTS: Seeking investment for experimental research detailed design, prototyping, and preparation for production of new industrial techniques for making coal pellets from slurries, sludges, and other coal-containing waste to be burned in a fluidized bed.

HUMAN RESOURCES SUPPORT: Novokramatorsk has a health sanatorium for 2,000 workers, housing, a polyclinic and hospital, kindergartens, creches and Pioneer camps.

OTHER RELEVANT INFORMATION: N/A

KREMENCHUK

ENTERPRISE NAME: AVTOKRAZ INDUSTRIAL ASSOCIATION

ALTERNATE NAMES: Kremenchug Automobile Plant (KRAZ)

ADDRESS:

315331 Kremenchuk, Ukraine
Ulitsa Kievskaya, 62
Avtokraz Industrial Association

Telephone: (011-380-5366) 5-95-48, 7-55-61, 5-92-32
Telex: 131476 GROZA
Teletype: 164286 SHATUN
Fax: (011-380-5366) 224-20-97, 5-92-00

GENERAL OVERVIEW: The Avtokraz Industrial Association produces a range of heavyduty cargo and dump trucks and chassis for both civil and military purposes.

PRIMARY BUSINESS: Automobiles

FORMER MINISTRY SUBORDINATION: Ministry of the Construction Materials Industry

APPROXIMATE EMPLOYMENT: Total: 35,000 Date: 1992

PRINCIPAL OFFICERS:
Viktor Nikolaevich Zakharov, General Director

OWNERSHIP: State-owned.

YEAR ESTABLISHED: N/A

MILITARY PRODUCT LINES: Military trucks and chassis for military vehicles.

CIVIL PRODUCT LINES: 6x4 and 6x6 cargo trucks, 6x4 and 6x6 prime movers, 6x4 dump trucks, 6x6 timber carriers, plastic toys, supports for footwear.

KEY TECHNOLOGIES/EQUIPMENT EMPLOYED: N/A

CONVERSION PROJECTS: Avtokraz has preliminary plans to set up a joint

venture with Iveco, FIAT's truck subsidiary, to manufacture 10-ton trucks. Avtokraz-produced chassis are also used in large hydraulic-lift cranes for construction use.

HUMAN RESOURCES SUPPORT: N/A

OTHER RELEVANT INFORMATION: Avtokraz, along with many other plants, is participating in Ukraine's program "Ukrainian Car-2000" to improve and increase domestic production of passenger cars, trucks, and buses by the year 2000.

ENTERPRISE NAME: KREMENCHUK KRYUKOVSKIY RAILROAD CAR BUILDING PLANT

ALTERNATE NAMES: Kryukov Railway Car Building Works, Kryukovskiy vagonostroitelnyy zavod, Kremenchuk Car-Building Production Association.

ADDRESS:

315307, Kremenchuk, Ukraine
Vulitsya K. Libknekhta, 139
Kryukovskiy Railroad Car Building Plant

Telephone: (011-380-5366) 2-04-67, 6-00-82, 6-97-95
Telex: 131330 OSA SU
Teletype: 164283 OS

GENERAL OVERVIEW: The Kryukovskiy Railroad Car Building Plant produces various types of railroad cars. For conversion it proposes to produce passenger coaches.

PRIMARY BUSINESS: Railroad cars

FORMER MINISTRY SUBORDINATION: Ministry of Heavy and Transport Machine Building

APPROXIMATE EMPLOYMENT: 9,000

PRINCIPAL OFFICERS:

Vladimir Ivanovich Prikhodko, Director
Viktor Georgievich Chashkin, Point of Contact
Valentin Aleksandrovich Larionov, Chief Engineer

OWNERSHIP: State-owned. Conversion to a joint-stock company is planned.

YEAR ESTABLISHED: N/A

MILITARY PRODUCT LINES: Self-propelled amphibious ferries.

CIVIL PRODUCT LINES: Freight cars; bogies; wheel sets; semi-cars; hopper cars for cement and cereals; spare parts for railway transport; dual-axis trolleys; wheel sets; consumer goods.

KEY TECHNOLOGIES/EQUIPMENT EMPLOYED: Welding; assembly; machining;

foundry; painting; forging.

CONVERSION PROJECTS: Design and manufacture of passenger coaches for civil transport.

HUMAN RESOURCES SUPPORT: N/A

The city of Kremenchuk was formerly known in the Soviet Union as Kremenchug.

KRIVOY ROG

ENTERPRISE NAME: KRIVOY ROG VOSKHOD TURBINE PLANT

ALTERNATE NAMES: Krivorozhskiy Turbiniy Zavod "Voskhod"

ADDRESS:

324045, Krivoy Rog, Ukraine
Vulitsya Okruzhnaya, 127
Krivoy Rog Voskhod Turbine Plant

Telephone: (011-380-564) 29-73-42

Telex: 143414

Teletype: 106186 PLAMYA

Fax: (011-380-564) 27-26-65

GENERAL OVERVIEW: The Krivoy Rog Voskhod Turbine Plant specializes in the production of medium-output gas turbine power plants and gas compressors. The plant also produces hardware and other consumer and industrial products, notably heating equipment.

PRIMARY BUSINESS: Gas turbine sets

FORMER MINISTRY SUBORDINATION: Ministry of the Shipbuilding Industry

APPROXIMATE EMPLOYMENT: N/A

PRINCIPAL OFFICERS:

N. Ya. Mashinetskiy, Director

V. V. Kanakov, Deputy Director for Commercial Affairs

OWNERSHIP: State-controlled.

YEAR ESTABLISHED: N/A

MILITARY PRODUCT LINES: Medium-output gas turbine power plants for naval vessels.

CIVIL PRODUCT LINES: Medium output gas turbines for industrial and marine installations; natural gas compressors; servo mechanisms for ship systems; ordinary domestic heating and illuminating apparatus; plastic (polyethylene, polystyrene, and copolymers) consumer products such as housewares, toilet articles, toys and tabletop

games; enamelled steel tableware and sinks, tubs, and basins; complete equipment for home canning of produce; locks and hardware.

KEY TECHNOLOGIES/EQUIPMENT EMPLOYED: N/A

CONVERSION PROJECTS: N/A

HUMAN RESOURCES SUPPORT: N/A

OTHER RELEVANT INFORMATION: N/A

KYIV

ENTERPRISE NAME: ANTONOV AVIATION SCIENTIFIC TECHNICAL COMPLEX

ALTERNATE NAMES: Aviatsionnyy nauchno-technicheskiy kompleks (ANTK) im. O.K. Antonova, Antonov Design Bureau.

ADDRESS:

252062, Kyiv, Ukraine
Vulitsya Tupoleva, 1
Antonov Aviation Scientific Technical Complex

Telephone: (011-380-44) 442-70-98, 442-20-58
Telex: 131048 OZON
Teletype: 131309 OZON
Fax: (011-380-44) 449-99-96
E-Mail: N/A

GENERAL OVERVIEW: The Antonov Aviation Scientific Technical Complex is a prominent developer of transport aircraft, having designed over 100 types and specialized versions since its founding in the mid-1940s. Among its many products are heavy-lift aircraft such as the An-124 Condor (Ruslan) and the world's largest, the An-225 Cossack (Mriya), which carries the Buran space shuttle. The ANTK includes the Oleh Antonov Design Bureau and its experimental plant. Antonov also has a test airfield in Hostomel.

PRIMARY BUSINESS: Transport aircraft design

FORMER MINISTRY SUBORDINATION: Ministry of the Aviation Industry

APPROXIMATE EMPLOYMENT: N/A

PRINCIPAL OFFICERS:

Petro V. Balabuyev, General Designer
Dmytro Kyva, Chief Designer and First Deputy General Designer

OWNERSHIP: State-owned.

YEAR ESTABLISHED: 1946

MILITARY PRODUCT LINES: Transport aircraft, including the An-70 propfan

wide-body medium transport and various versions of the An-72, including the An-72P maritime-patrol aircraft.

CIVIL PRODUCT LINES: Transport aircraft for carrying passengers and cargo, such as the An-38 turboprop light transport and the An-218 wide-body airliner.

KEY TECHNOLOGIES/EQUIPMENT EMPLOYED: N/A

CONVERSION PROJECTS: Antonov is working on transport aircraft of various sizes and ranges, including the An-140 turboprop regional airliner and the An-180 propfan medium-range airliner.

HUMAN RESOURCES SUPPORT: N/A

OTHER RELEVANT INFORMATION: The An-70 aircraft currently under development is planned to be jointly produced at plants in Kyiv in Ukraine and Samara in Russia. Antonov is collocated with the Kyiv Aviation Production Association.

ENTERPRISE NAME: KYIV ARSENAL PLANT

ALTERNATE NAMES: Zavod "Arsenal" imeni V.I. Lenin, PO "Zavod Arsenal."

ADDRESS:

252010 Kyiv, Ukraine
Vulitsya Moskovskaya, 8
Arsenal Plant

Telephone: (011-380-44) 290-12-84, 293-13-34
Fax: (011-380-44) 290-12-84, 290-22-95
Telex: 131016 PRIZMA

GENERAL OVERVIEW: The Kyiv Arsenal plant was founded in 1764 as a military and artillery enterprise. Since 1945 it has specialized in manufacturing optical and optomechanical devices and systems. The plant is Ukraine's largest producer of optical elements.

PRIMARY BUSINESS: Military optics

FORMER MINISTRY SUBORDINATION: Ministry of the Defense Industry

APPROXIMATE EMPLOYMENT: 10,000

PRINCIPAL OFFICERS:

Vasyl F. Lezhnev, General Director
Mikola Yakovich Nedbaev, Point of Contact

OWNERSHIP: State-owned.

YEAR ESTABLISHED: 1764

MILITARY PRODUCT LINES: Elements of missile complexes and aircraft technology devices, including: missile guidance systems and seeker heads; gyrocompasses; tachometers; systems for azimuth orientation of lenses; dynamic infrared systems for search and shadowing; helmet control systems; aircraft optical devices; military cameras; and precise measuring devices used to make monobloc lasers used in SS-18 intercontinental ballistic missiles.

CIVIL PRODUCT LINES: Equipment for banks; medical equipment; and still cameras. A wide variety of cameras; medical equipment; ignition instruments for cars; fog

headlights; and mirrors for cars and motorcycles.

KEY TECHNOLOGIES/EQUIPMENT EMPLOYED: Optical production; mechanical processing; molding; tooling; assembly and electrical wiring production; the technology of large and superlarge microassemblies.

CONVERSION PROJECTS: Arsenal has a deal with the Polish company Labimex to set up a joint venture to produce complex medical equipment. It is also looking for a joint venture partner for the development and production of high-precision microscope lenses for medical instruments, blood analyzers, infrared imaging diagnostic equipment, polyspectral therapeutic equipment, polyprofile medical and ecological express-indicators, laser videoplayers, optical disk memory, consumer devices, and cameras. Arsenal plans to produce ecologically pure technologies, machines, and equipment, information systems, and computer devices.

HUMAN RESOURCES SUPPORT: Arsenal Production Association has four cafeterias, 19 refreshment rooms, a cafe, a food shop, a clothing and general store, a vegetable store, and two state farms. It has a housing area, a polyclinic, a preventative care center, a museum, a community center, nine pre-schools with two more under construction, seven gardening associations with a total of 1,322 country garden plots, and arrangements with several holiday resorts and camps.

OTHER RELEVANT INFORMATION: The association has been involved in a joint venture with Polaroid since 1989; it also works with German and Italian firms. The Arsenal Plant already produces the "Kyiv-88" camera, which is used in space flights. The plant is now seeking money to produce sewing machines.

The city of Kyiv was formerly known in the Soviet Union as Kiev.

ENTERPRISE NAME: KYIV ARTEM PRODUCTION ASSOCIATION

ALTERNATE NAMES: Kievskoye PO imeni Artema, Artem Aviation Technology Plant, Kiev Artem Production Amalgamation

ADDRESS:

252050 Kyiv, Ukraine
Vulitsya Melnikova, 2/10
Kyiv Artem Production Association

Telephone: (011-380-44) 213-2124, 216-75-20, 216-70-22, 211-95-18

Fax: (011-380-44) 213-16-15

Telex: 131494 BUTON

GENERAL OVERVIEW: Artem is one of the main suppliers for the Ukrainian aerospace industry. Its plants produce various kinds of metal treatment, welding, casting, molding, heat treatment, plasma and electroerosion treatment.

PRIMARY BUSINESS: Air-to-air missiles and aircraft components

FORMER MINISTRY SUBORDINATION: Ministry of the Aviation Industry

APPROXIMATE EMPLOYMENT: 6,000

PRINCIPAL OFFICERS:

Olexander Stepanovich Kachura, General Director
V. Kozyrenko, Economic Relations Department

OWNERSHIP: State-owned.

YEAR ESTABLISHED: 1892

MILITARY PRODUCT LINES: Air-to-air missiles; components for aircraft and missiles

CIVIL PRODUCT LINES: Electric welding equipment for general industrial purposes; medical instruments; and consumer goods.

KEY TECHNOLOGIES/EQUIPMENT EMPLOYED: Various kinds of metal treatment casting; molding; heat treatment; and plasma and electroerosion treatment. In addition, Artem uses hot and cold stamping of metal goods; plastic material processing welding; laser engineering; foundry; galvanizing; color varnishing; and assembly equipment. Also high-precision equipment of German, Austrian, Czech, Slovak, Indian, and other

origins, including thermosoftening plastic material, automatic machines built by the German firm Kleckner and the Indian SP firm for CNC machine tools and processing centers, and planes with programmed control.

KEY TECHNOLOGIES/EQUIPMENT: New ecologically pure technology for the application of protective and decorative coating (instead of galvanization); equipment for mechanical treatment and welding of parts; casting; plastic processes; cold and hot stamping; free hammering; air-plastic metal cutting; laser technology; making and soldering of printed circuit cards; lacquering of printed circuit cards with centrifugal and thermoradiant drying; molding of electronic elements; molding and tinning of leads and soldering of microcircuits on printed circuit boards; production of electroerosion equipment; production of 100-mm diameter gears; winding of small-diameter armature and stator coils; and electroplating of structural and stainless steels.

CONVERSION PROJECTS: Electronic variators and electronic mechanisms for the agroindustrial complex and food industry; medical equipment; ship control and direction systems; electrical equipment diagnostics; vacuum cleaners and hairdryers.

HUMAN RESOURCES SUPPORT: N/A

OTHER RELEVANT INFORMATION: Artem is looking for joint manufacturing projects with U.S. businesses in high-technology areas. The association has its own motor transport agency, including up to 500 cars and an air transport subdivision, with four AN-26 aircraft.

ENTERPRISE NAME: KYIV AVIATION PRODUCTION ASSOCIATION

ALTERNATE NAMES: KIAPO, Kiev 50th Anniversary of October Aviation , Production Association, AVIANT

ADDRESS:

252062 Kyiv, Ukraine
Prospekt Peremogi, 100
Kyiv Aviation Production Association

Telephone: (011-380-44) 441-51-10
Fax: (011-380-44) 442-62-13
Teletype: 131544 DUGA

GENERAL OVERVIEW: The Kyiv Aviation Production Association manufactures both heavy and light transport aircraft.

PRIMARY BUSINESS: Aviation technology

FORMER MINISTRY SUBORDINATION: Ministry of the Aviation Industry

APPROXIMATE EMPLOYMENT: 11,500

PRINCIPAL OFFICERS:

Olexander Ivanovich Kharlov, General Director
Vladislav Konstantinovich Bondarenko, Point of Contact

OWNERSHIP: State-owned joint-stock company

YEAR ESTABLISHED: 1920

MILITARY PRODUCT LINES: Military transports. The An-32 and the An-124.

CIVIL PRODUCT LINES: An-32, An-124; washing machines, baby carriages

KEY TECHNOLOGIES/EQUIPMENT EMPLOYED: Molding; electric plating; nonmetal working; stamping; machining; unit assembling.

CONVERSION PROJECTS: Tu-334 and An-70 aircraft; "Agate-Ukraine" pressure chamber; K-12-01 urban trolley bus. The association is seeking Western investment for the production of the four-propfan-engined An-70T military aircraft for civil uses and the

Tu-334 civil aircraft. It is also seeking Western investment to purchase production equipment for the manufacture of "Agate-Ukraine" pressure chambers; urban trolley cars; and baby carriages. The association has developed investment projects for a pressure chamber, trolley bus, the Tu-334, and Tu-70, and submitted them to its Ministry (the Ministry of Machine Building, the Military Industrial Complex and Conversion).

HUMAN RESOURCES SUPPORT: N/A

ENTERPRISE NAME: KYIV ELEKTRONMASH PRODUCTION ASSOCIATION

ALTERNATE NAMES: Proizvodstvennoye obedineniye "Elektronmash", PO
Elektronmash, Lenin Elektronmash Production Association.

ADDRESS:

252180, Kyiv, Ukraine
Vulitsya Bolshaya Okruzhnaya, 4
Elektronmash Production Association

Telephone: (011-380-44) 474-12-43, 474-12-80, 474-13-38, 475-93-33, 476-08-88,
477-06-28

Telex: 131274

Teletype: 131062 KOSMOS

Fax: (011-380-44) 474-12-82

GENERAL OVERVIEW: The Elektronmash Production Association produces computers and calculating machines, other computer-related equipment, and electronic equipment for controllers of numerically-controlled machine tools.

PRIMARY BUSINESS: Computers

FORMER MINISTRY SUBORDINATION: Ministry of the Radio Industry

APPROXIMATE EMPLOYMENT: N/A

PRINCIPAL OFFICERS:

Viktor Grigoryevich Sirota, Director
Viktor Ivanovich Mova, Director of VUM plant

OWNERSHIP: State-owned

YEAR ESTABLISHED: N/A

MILITARY PRODUCT LINES: Computers

CIVIL PRODUCT LINES: Computers, computer storage devices, specialized and general-purpose instruments, calculating machines, office machines, lighting fixtures, electronic equipment for numerically-controlled machine tools, toys (including electrical), felt-tip pens, handicrafts, and other consumer goods.

KEY TECHNOLOGIES/EQUIPMENT EMPLOYED: N/A

CONVERSION PROJECTS: N/A

HUMAN RESOURCES SUPPORT: N/A

OTHER RELEVANT INFORMATION: Elektronmash has a joint venture with DZU, a Bulgarian firm, to jointly produce and market computer-related products.

ENTERPRISE NAME: KYIV ELEKTRONPRYLAD SCIENTIFIC PRODUCTION ASSOCIATION

ALTERNATE NAMES: NPO "Elektronprylad," Elektronpribor Scientific Production Association, NPO "Elektronpribor"

ADDRESS:

252116 Kyiv, Ukraine
Vulitsya Vandy Vasilevskoy, 27/29
Elektronprylad Scientific Production Association

Telephone: (011-380-44) 274-31-86, 274-30-56

Fax: (011-380-44) 274-30-69

Telex: 131075 EPOKHA

GENERAL OVERVIEW: The Elektronprylad Scientific Production Association designs and manufactures onboard electronic equipment, high-precision mechanical devices, and hybrid microelectronics.

PRIMARY BUSINESS: Aircraft electronics

FORMER USSR MINISTRY SUBORDINATION: Ministry of the Aviation Industry

APPROXIMATE EMPLOYMENT: 1,300

PRINCIPAL OFFICERS:

Emelyan G. Isak, General Director

OWNERSHIP: State-owned.

YEAR ESTABLISHED: N/A

MILITARY PRODUCT LINES: Control systems for aircraft.

CIVIL PRODUCT LINES: Control systems for civil aircraft and helicopter equipment; flight recording systems; equipment for marking accident sites of civil aircraft; inspection and parameter recording equipment for the mining industry; medical equipment.

KEY TECHNOLOGIES/EQUIPMENT EMPLOYED: Equipment for designing and producing printed circuit boards and hybrid microelectronics; electroplating equipment; machining equipment.

CONVERSION PROJECTS: The design of civil aircraft and helicopter electronic and electromechanical equipment. The Elektronprylad Scientific Production Association proposes joint production of the "TKAS-II" anti-collision system for civil aircraft. The association has also developed a plan for joint production of a civil aircraft brake wheel system.

HUMAN RESOURCES SUPPORT: N/A

ENTERPRISE NAME: KYIV INSTRUMENT PRODUCTION ASSOCIATION

ALTERNATE NAMES: PO "Kievpribor," Industrial Corporation "Kievpribor"

ADDRESS:

252067 Kyiv, Ukraine
Vulitsya Garmatnaya, 2
Kyiv Instrument Production Association

Telephone: (011-380-44) 446-52-76, 446-38-48

Teletype: KIEV 67 KASKAD

GENERAL OVERVIEW: The Kyiv Instrument Production Association produces adjustment and control devices for production processes, gas analyzers, and special electronic devices. It has produced instruments for space applications, including radio link and telemetry systems for satellites and space vehicles, and sensors and parameter control instruments for missile systems. The association also produces diverse products for civil use, including telephones and compressors.

PRIMARY BUSINESS: Control devices for production processes, instrumentation

FORMER MINISTRY SUBORDINATION: Ministry of General Machine Building

APPROXIMATE EMPLOYMENT: 5,000

PRINCIPAL OFFICERS:

Oleg Nikolayevich Lebedev, General Director

OWNERSHIP: State-owned, permitted to corporatize.

YEAR ESTABLISHED: 1947

MILITARY PRODUCT LINES: Instruments for space vehicles

CIVIL PRODUCT LINES: Adjustment and control devices for production processes; gas analyzers; special electronic devices; compressors; spray painters; electronic ignition systems for cars; alarm systems; telephones; fishing equipment; children's toys; various consumer goods.

KEY TECHNOLOGIES/EQUIPMENT EMPLOYED: Mechanical, galvanic, and assembly equipment.

CONVERSION PROJECTS: Protection and control equipment for energy systems; communications equipment; telephones featuring a memory unit and signal volume adjustment; spraying machines; electronic ignition systems for cars; consumer electronic products.

HUMAN RESOURCES SUPPORT: N/A

ENTERPRISE NAME: KYIV KOROLEV RADIOPRYLAD PLANT

ALTERNATE NAMES: PO imeni Koroleva, Kyiv Korolev Production Association,
Korolov Radioprylad Works

ADDRESS:

252124 Kyiv, Ukraine
Bulvar Ivana Lipse, 8
Korolev Radioprylad Plant

Telephone: (011-380-44) 483-31-78, 488-65-10, 483-40-66, 483-37-78, 484-88-65
Fax: (011-380-44) 488-44-00
Telex: 131284 BOEK SU
Teletype: 131053 BOYETS

GENERAL OVERVIEW: The Korolev Radioprylad Plant is comprised of two scientific research institutes, six plants, and a special design bureau for consumer goods.

PRIMARY BUSINESS: Radio equipment

FORMER MINISTRY SUBORDINATION: Ministry of Communications Equipment
Industry

APPROXIMATE EMPLOYMENT: 4,800

PRINCIPAL OFFICERS:

Leonard L. Nikiforov, General Director, Korolev Radioprylad Plant
O.V. Pavlenko, Point of Contact

OWNERSHIP: State-owned.

YEAR ESTABLISHED: 1954

MILITARY PRODUCT LINES: Radio-measurement instruments; radar equipment;
radios; and nuclear radiation measuring devices.

CIVIL PRODUCT LINES: Radio receivers; stereo amplifiers; microwave ovens;
electronic instruments; medical diagnostic equipment.

KEY TECHNOLOGIES/EQUIPMENT EMPLOYED: Electroplating; stamping;
mechanical working; tooling and molding; chemical treatment; assembly.

CONVERSION PROJECTS: Electronic instruments, including consumer-oriented ones. Also: measurement equipment, including heart multianalyzers; synchroimeters; high-frequency signal generators; frequency meters; spectrum analyzers; receivers; and radiation measurement equipment. Automatic washing machines; vacuum cleaners; automatic kitchen machines; medical equipment; carbide-tipped drills; stereo amplifiers; radio-telephone communication equipment; and other products intended for the internal Ukrainian market. Korolev has set up a joint venture with Siemens AG of Germany to produce a digital electronic dialing system.

Korolev wishes to establish a joint venture with a partner that can provide equipment and experience in the mass production of household appliances, including vacuum cleaners, washing machines, and multi-purpose kitchen appliances.

HUMAN RESOURCES SUPPORT: N/A

ENTERPRISE NAME: KYIV KVAZAR PRODUCTION ASSOCIATION

ALTERNATE NAMES: PO "Kvazar;" Key facility: Kvazar Plant
Scientific Production Association "Mikroprotessor"

ADDRESS:

252136 Kyiv, Ukraine
Vulitsya Severo-Siretskaya, 1
Kvazar Production Association

Telephone: (011-380-44) 434-83-44, 442-70-42, 442-11-50, 434-89-44
Fax: (011-380-44) 434-91-41, 442-01-90, 434-91-41
Telex: 131489 ELVIA
Teletype: 131468 MIKRON

GENERAL OVERVIEW: The Kvazar Production Association is the largest manufacturer of integrated circuits (ICs) in Ukraine. It specializes in the production of integrated circuits for television, communication, automobiles, programmable calculators, consumer products, and technological equipment. Since 1972, it has designed and produced more than 200 types of ICs. It also has started production of electronic consumer goods, medical equipment such as blood analyzers and diamond stomatology equipment, and solar cells and batteries.

PRIMARY BUSINESS: Integrated circuits

FORMER USSR MINISTRY SUBORDINATION: Ministry of the Electronics Industry

APPROXIMATE EMPLOYMENT: 4,300

PRINCIPAL OFFICERS:

Serhiy Vladlenovich Monakov, Director
V. Kostikov, Deputy Director
Boris Fedorovich Aleksandrov, Point of Contact

OWNERSHIP: Transformed into state-owned joint-stock company in May 1994.

YEAR ESTABLISHED: 1964

MILITARY PRODUCT LINES: Integrated circuits for military equipment.

CIVIL PRODUCT LINES: More than 200 products, including: integrated circuits for

consumer and industrial electronics (microprocessors, operating amplifiers); memory devices; controllers; programmable calculators; technological equipment.

KEY TECHNOLOGIES/EQUIPMENT EMPLOYED: Microelectronics technology; molding technology; electrochemical plating; machine building; complicated tooling.

CONVERSION PROJECTS: Kvazar is seeking a joint venture partner to produce microelectronic products and complex electronic apparatuses, including consumer products.

The Kvazar Production Association is also seeking joint ventures in the development of the technology of manufacturing stomatological equipment. It plans to set up a wholly-autonomous subsidiary, Kvazar Instruments, to make the new products. Kvazar started making diamond-tipped dental instruments in March 1994 in an effort to utilize plant capacity previously devoted to defense production.

HUMAN RESOURCES SUPPORT: N/A

OTHER RELEVANT INFORMATION: The Kvazar Production Association has five plants in Ukraine. The association has access to state financing for new product developments and credits for preparing for new production.

ENTERPRISE NAME: KYIV MAYAK PLANT

ALTERNATE NAMES: Zavod "Mayak"

ADDRESS:

252073 Kyiv-073, Ukraine
Prospekt Chervony Kazaky, 8
Kyiv Mayak Plant

Telephone: (011-380-44) 418-75-40, 417-07-26, 418-83-41, 418-89-92

Fax: (011-380-44) 417-07-26

Telex: 131068 ZUUK

Teletype: 132496 ZVUK

GENERAL OVERVIEW: The Mayak Plant produces magnetic tape recording equipment for a wide range of purposes. It is seeking foreign joint ventures to produce new models of high-quality tape players for motor vehicles.

PRIMARY BUSINESS: Tape recording equipment

FORMER MINISTRY SUBORDINATION: Ministry of the Radio Industry

APPROXIMATE EMPLOYMENT: 7,000

PRINCIPAL OFFICERS:

Nikolay Ivanovich Piven, Director

Anatoly Trofimovich Shishov, Vice-Director of Economic Section

OWNERSHIP: State-owned.

YEAR ESTABLISHED: 1924

MILITARY PRODUCT LINES: Military tape recorders

CIVIL PRODUCT LINES: Tape recording equipment, including stationary double cassette tape recorders; "Mayak-246" and "Mayak-247" stereos; the "Mayak-215" double cassette stereo radio recorder; the "Mayak YM-300" power amplifier; "Mayak-250AC" and "Mayak-500AC" loudspeakers; magnetic heads for stereo tape recorders.

KEY TECHNOLOGIES/EQUIPMENT EMPLOYED: Casting; die forming; mechanical metal treatment; plastic production; woodworking; electroplating and varnish painting;

printed circuit production; electronic unit production; assembly; magnetic head production; instrumentation production; maintenance and repair; transportation facilities.

CONVERSION PROJECTS: The Mayak plant proposes to develop, prepare, and tool up for quantity production of consumer tape recording equipment, a number of devices for electronic money turnover, and data registers for airborne control systems.

HUMAN RESOURCES SUPPORT: N/A

ENTERPRISE NAME: KYIV PETROVSKIY STATE AUTOMATION PLANT

ALTERNATE NAMES: Zavod avtomatiki imeni G.I. Petrovskogo

ADDRESS:

252116, Kyiv, Ukraine
Vulitsya Starokievskaya, 10
Kyiv Petrovskiy State Automation Plant

Telephone: (011-380-44) 225-70-33, 274-79-87

Telex: N/A

Teletype: 131898 PRIBOR

Fax: (011-380-44) 274-62-86

GENERAL OVERVIEW: This plant designs and produces electromechanical control instruments and navigation equipment for seagoing vessels, specializing in gyroscope equipment.

PRIMARY BUSINESS: Navigation equipment

FORMER MINISTRY SUBORDINATION: Ministry of Shipbuilding Industry

APPROXIMATE EMPLOYMENT: Total: 6,000 Date: 1992

PRINCIPAL OFFICERS:

L.P. Staritskiy, Director

OWNERSHIP: State-owned.

YEAR ESTABLISHED: 1934

MILITARY PRODUCT LINES: Navigation equipment for naval vessels.

CIVIL PRODUCT LINES: Gyroscopes and other navigation equipment; electromechanical control equipment for ships and spacecraft; equipment for wire, radio, and television communications; medical equipment; optical instruments; tape recorders; household appliances.

KEY TECHNOLOGIES/EQUIPMENT EMPLOYED: N/A

CONVERSION PROJECTS: N/A

ENTERPRISE NAME: KYIV RADAR PRODUCTION ASSOCIATION

ALTERNATE NAMES: Kievskoye Proizvodstvennoe Ob'yeninenie "Radar," PO Radar, Communist Production Association

ADDRESS:

252650 Kyiv-6, Ukraine
Vulitsya Predslavinskaya, 35
Kyiv Radar Production Association

Telephone: (011-380-44) 268-10-72, 269-93-03, 268-33-95

Telex: N/A

Teletype: N/A

Fax: (011-380-44) 268-30-33

GENERAL OVERVIEW: The Kyiv Radar Production Association is a large electronics firm that produces radioelectronic equipment including radar, precision electronics, and computers for both military and civil purposes.

PRIMARY BUSINESS: Radioelectronics

FORMER MINISTRY SUBORDINATION: N/A

APPROXIMATE EMPLOYMENT: N/A

PRINCIPAL OFFICERS:

Georgiy I. Larkov, General Director
N. Golyshevsky, Marketing Manager

OWNERSHIP: N/A

YEAR ESTABLISHED: N/A

MILITARY PRODUCT LINES: Radar and communications equipment.

CIVIL PRODUCT LINES: Radio navigation equipment for aircraft and helicopters, communications and broadcasting equipment, radio transmitters and receivers, computers, "Jupiter" tape recorders, "Buran" vacuum cleaners.

KEY TECHNOLOGIES/EQUIPMENT EMPLOYED: Steel and non-ferrous casting and molding; casting of plastic and rubber mixtures; ferrite molding; manufacturing of microwave antennas; production of thin-film micromodules using vacuum deposition

and photolithography.

CONVERSION PROJECTS: N/A

HUMAN RESOURCES SUPPORT: N/A

OTHER RELEVANT INFORMATION: The Kyiv Radar Production Association was formerly known as the Kiev Kommunist Production Association.

ENTERPRISE NAME: KYIV RADIOZAVOD PLANT

ALTERNATE NAME: Kiev Radio Plant

ADDRESS:

252096 Kyiv-96, Ukraine
Vulitsya Borispilska, 9
Kyiv Radiozavod

Telephone: (011-380-44) 556-42-77, 556-12-87, 556-89-10

Fax: 556-62-92

Telex: 131335 BEREK

Teletype: 131474, 131700 VOSKHOD

GENERAL OVERVIEW: Kyiv Radiozavod is a manufacturer of electronic instruments.

PRIMARY BUSINESS: Electronics

FORMER MINISTRY SUBORDINATION: N/A

APPROXIMATE EMPLOYMENT: 20,000

PRINCIPAL OFFICERS:

Dmytro G. Topchy, General Director
Volodimir K. Valyaev, Point of Contact

OWNERSHIP: State-owned.

YEAR ESTABLISHED: 1953

MILITARY PRODUCT LINES: Control systems for missile complexes

CIVIL PRODUCT LINES: Control systems for metal processing machine tools; television sets; communications apparatuses; disposable syringes and needles.

KEY TECHNOLOGIES/EQUIPMENT EMPLOYED: Microelectronics; machining; printed circuit board production; metal processing; radio assembly production.

CONVERSION PROJECTS: Kyiv Radiozavod has started production of household sewing machines with a wide range of technological operations and which are in considerable demand in Ukraine and the NIS. The plant has proposed creating a joint venture to produce nickel-cadmium rechargeable batteries.

**ENTERPRISE NAME: KYIV RELAY AND AUTOMATION DEVICES SCIENTIFIC
PRODUCTION ASSOCIATION**

ALTERNATE NAMES: Kievskoye nauchno-proizvodstvennoye obyedineniye rele i
avtomatiki, NPO Rele i Avtomatiki

ADDRESS:

252680 Kyiv, Ukraine

Bulvar I. Lepse, 6

Kiev Relay and Automation Devices Scientific Production Association

Telephone: (011-380-44) 446-14-82

Telex: 131361 TOPOL

Teletype: 131072 TOPOL

Fax: (011-380-44) 484-58-74

E-Mail: N/A

GENERAL OVERVIEW: This production association, consisting of plants at several locations and a separate planning and design facility, has a broad list of industrial products, as well as items for residences and offices; central to its production program are its low voltage (under 1000 volts) electrotechnical products.

PRIMARY BUSINESS: Electrotechnical equipment

FORMER MINISTRY SUBORDINATION: Ministry of Electrotechnical Industry and
Instrument Building

APPROXIMATE EMPLOYMENT: N/A

PRINCIPAL OFFICERS:

Vasiliy Aleksandrovich Ponomarev, Director

Leonid Ignatevich Vlasenko, Chief Engineer

Anatoliy Petrovich Chetverikov, Deputy Director

Ratmir Aleksandrovich Pekishev, Deputy Director

OWNERSHIP: State-controlled

YEAR ESTABLISHED: N/A

MILITARY PRODUCT LINES: Electrotechnical items

CIVIL PRODUCT LINES: Complete forging and pressing machines; low voltage (under

1000 volts) relays, motor starters, circuit breakers and circuit protection devices; printed circuit boards; lighting and power systems for residences and offices; aluminum alloy castings and non-ferrous powdered metal products; automation devices; equipment for food and light industry; tools and abrasives for metal and wood working; medical diagnostic and treatment equipment; plastic toys and other consumer goods.

KEY TECHNOLOGIES/EQUIPMENT EMPLOYED: N/A

CONVERSION PROJECTS: The production association has started producing nuclear magnetic resonance (NMR) tomographic machines in collaboration with the German firm, Siemens AG.

HUMAN RESOURCES SUPPORT: N/A

ENTERPRISE NAME: LENINSKAYA KUSNITSA SHIPYARD

ALTERNATE NAMES: Leninskaya Kuznitsa Plant, Zavod "Leninskaya Kuznitsa"

ADDRESS:

252176, Kyiv, Ukraine
Vulitsya Elekrikov, 26
Leninskaya Kuznitsa Shipyard

Telephone: (011-380-44) 417-42-42, 416-00-43

Telex: 132463

Teletype: OSTROV

Fax: (011-380-44) 417-71-40

E-Mail: N/A

GENERAL OVERVIEW: The Leninskaya Kuznitsa Shipyard produces both naval vessels and shipping boats, as well as a variety of civil products.

PRIMARY BUSINESS: Naval vessels

FORMER MINISTRY SUBORDINATION: Ministry of Shipbuilding Industry

APPROXIMATE EMPLOYMENT: Total: 6,500 Date: 1992

PRINCIPAL OFFICERS:

Dmitriy A. Chernenko, General Director

OWNERSHIP: State-owned.

YEAR ESTABLISHED: N/A

MILITARY PRODUCT LINES: Anit-Submarine Warfare ships.

CIVIL PRODUCT LINES: Fishing trawlers, tuna and shrimp boats; refrigerated transport ships; rubber motor boats; seafood processing equipment; dredges; pumps; steam boilers and engine control systems for ships; winches and drums; shafts; industrial equipment for the garment and food processing industries; household furniture; rowboats.

KEY TECHNOLOGIES/EQUIPMENT EMPLOYED: N/A

CONVERSION PROJECTS: N/A

HUMAN RESOURCES SUPPORT: N/A

OTHER RELEVANT INFORMATION: The shipbuilding firm has a central design bureau, TsKB Leninskaya Kuznitsa, colocated with the shipyard.

ENTERPRISE NAME: OKTAVA PRODUCTION ASSOCIATION

ALTERNATE NAMES: Proizvodstvennoye obedineniye "Oktava", PO Oktava. Key facilities: Generator Plant (Zavod "generator"), Experimental Design Bureau for Machine-Building (OKB Mashinostroyeniya), Special Design Bureau (SKB).

ADDRESS:

252072, Kyiv, Ukraine
Vulitsya Novo-Konstantinovskaya, 18
Oktava Production Association

Telephone: (011-380-44) 417-01-80, 417-75-19

Telex: N/A

Teletype: 131085 BARS

Fax: N/A

E-Mail: N/A

GENERAL OVERVIEW: The Oktava Production Association develops and produces solid-state devices and electron tubes, specializing in microwave generators, klystrons, and travelling-wave tubes. The Oktava Production Association includes the collocated Generator Plant and its associated design bureaus.

PRIMARY BUSINESS: Microwave generators

FORMER MINISTRY SUBORDINATION: Ministry of the Electronics Industry

APPROXIMATE EMPLOYMENT: N/A

PRINCIPAL OFFICERS:

Dmitriy Mironovich Tuzov, General Director
Petr Stepanovich Turchin, Director of OKB
Viktor Stepanovich Balyuk, Director of SKB

OWNERSHIP: State-owned.

YEAR ESTABLISHED: N/A

MILITARY PRODUCT LINES: Components for satellite communications

CIVIL PRODUCT LINES: Solid-state microwave generators; electron tubes, including klystrons and travelling-wave tubes; specialized production technology for microwave devices; other electronic devices; articles for the automotive industry; furniture; medical

equipment; household articles.

KEY TECHNOLOGIES/EQUIPMENT EMPLOYED: N/A

CONVERSION PROJECTS: Gas flow-meters using equipment imported from Schlumberger of France. Oktava plans to produce up to 150,000 meters, annually.

HUMAN RESOURCES SUPPORT: N/A

OTHER RELEVANT INFORMATION: The Orion Scientific-Research Institute in Kiev, which also develops solid-state microwave devices, has been part of the Oktava Production Association.

ENTERPRISE NAME: ORION SCIENTIFIC RESEARCH INSTITUTE

ALTERNATE NAMES: Nauchno-issledovatel'skiy institut "Orion," II Orion.

ADDRESS:

252057, Kyiv, Ukraine
Vulitsya Ezheny Potye,
Orion Scientific Research Institute

Telephone: (011-380-44) 446-42-12, 446-23-67

Telex: N/A

Teletype: N/A

Fax: N/A

GENERAL OVERVIEW: Orion is a leading Ukrainian producer of microwave oscillators, traveling-wave tubes, and other electrovacuum and solid-state devices for use in radars, navigation and communications systems, instruments, and medical equipment. Orion also produces a wide array of semiconductor diodes and other electronic components. Orion includes an experimental plant.

PRIMARY BUSINESS: Electronic components

FORMER MINISTRY SUBORDINATION: Ministry of the Electronics Industry

APPROXIMATE EMPLOYMENT: N/A

PRINCIPAL OFFICERS:

Igor V. Zvershkhovskiy, Director
Vadim I. Perevermen, Director of Experimental Plant

OWNERSHIP: State-owned.

YEAR ESTABLISHED: 1961

MILITARY PRODUCT LINES: Microwave components for radar and communications systems.

CIVIL PRODUCT LINES: Microwave electrovacuum devices, including traveling-wave tubes, magnetrons, and klystrons; solid-state devices, including oscillators, amplifiers, mixers, modulators, and phase shifters; semiconductor diodes, including Gunn, IMPATT, Schottky, and pin types; ferrite microwave devices.

KEY TECHNOLOGIES/EQUIPMENT EMPLOYED: N/A

CONVERSION PROJECTS: N/A

HUMAN RESOURCES SUPPORT: N/A

OTHER RELEVANT INFORMATION: Orion has been part of the Oktava Production Association which specializes in the development and production of solid-state microwave generators.

ENTERPRISE NAME: SATURN JOINT STOCK COMPANY

ALTERNATE NAMES: Aktsionernoye obshchestvo "Saturn", AO Saturn,
NPO Saturn.

ADDRESS:

252148, Kyiv, Ukraine
Prospekt 50-letiya Oktyabrya, 2B
Saturn Joint Stock Company

Telephone: (011-380-44) 477-93-72, 477-01-09
Telex: 131266 KODER
Teletype: 131138 LOTUS
Fax: N/A

GENERAL OVERVIEW: The Saturn Joint Stock Company specializes in the development of microwave, cryogenically-cooled low-noise amplifiers, and produces an array of microwave semiconductor components and subsystems in the 1-300 gigahertz bandwidth for satellite and other communications equipment applications. It includes the Saturn Scientific Research Institute and the Saturn Plant.

PRIMARY BUSINESS: Electronic components

FORMER MINISTRY SUBORDINATION: Ministry of the Electronics Industry

APPROXIMATE EMPLOYMENT: N/A

PRINCIPAL OFFICERS:

Lev Gassanovich Gassanov, Director
Vladimir Moiseevich Chmel, Director of NII
Albert Ivanovich Politikhin, Plant Director

OWNERSHIP: State-owned.

YEAR ESTABLISHED: N/A

MILITARY PRODUCT LINES: Components for communications equipment.

CIVIL PRODUCT LINES: Transistors (4-60 Ghz); multiplying, mixing, and detector diodes (4-300 Ghz); low-noise transistor amplifiers (4-75 Ghz); super low-noise, cryogenically-cooled amplifiers (4-36 Ghz); Peltier thermoelectric microcoolers,

medical instruments.

KEY TECHNOLOGIES/EQUIPMENT EMPLOYED: Molecular-beam epitaxy, ion-doping, MOS hybrid epitaxy, electron-beam printing, clean rooms.

CONVERSION PROJECTS: N/A

HUMAN RESOURCES SUPPORT: N/A

OTHER RELEVANT INFORMATION: The Saturn Joint Stock Company has participated in such nationally significant programs as the Orbita and Ekhran satellite communications systems, the development of microwave integrated circuits based on gallium-arsenide, and supercomputers.

ENTERPRISE NAME: SLAVUTICH SCIENTIFIC-INDUSTRIAL ASSOCIATION

ALTERNATE NAMES: Slavutich Scientific Production Association, NPO Slavutich.

ADDRESS:

252035, Kyiv, Ukraine
Vulitsya Surikova, 2
Slavutich Scientific-Industrial Association

Telephone: (011-380-44) 276-42-21

Telex: N/A

Teletype: N/A

Fax: (011-380-44) 276-63-84

E-Mail: N/A

GENERAL OVERVIEW: The Slavutich Scientific-Industrial Association is the only enterprise in Ukraine that specializes in hydroacoustic equipment for military use.

PRIMARY BUSINESS: Hydroacoustic equipment

FORMER MINISTRY SUBORDINATION: N/A

APPROXIMATE EMPLOYMENT: N/A

PRINCIPAL OFFICERS: N/A

OWNERSHIP: State-owned.

YEAR ESTABLISHED: N/A

MILITARY PRODUCT LINES: Hydroacoustic equipment including sonobuoys, underwater transducers, and sonars.

CIVIL PRODUCT LINES: Ship navigation hydroacoustic stations (sonars).

KEY TECHNOLOGIES/EQUIPMENT EMPLOYED: N/A

CONVERSION PROJECTS: Slavutich has proposed producing ultrasonic and sonic medical equipment and ultrasonic agricultural equipment for fighting potato bugs and rodents.

HUMAN RESOURCES SUPPORT: N/A

LUHANSK

ENTERPRISE NAME: LUHANSK ALKALINE BATTERY PLANT

ALTERNATE NAMES: Luganskiy zavod shchelochnykh akkumulyatorov, Luhansk Transakkumulyator

ADDRESS:

348017 Luhansk, Ukraine
Vulitsya Oboronnaya, 91
Luhansk Transakkumulyator

Telephone: (011-380-642) 54-45-26, 54-45-49, 54-22-83, 54-12-91

Telex: N/A

Teletype: 118144 VULKAN

Fax: N/A

E-Mail: N/A

GENERAL OVERVIEW: The Luhansk Alkaline Battery Plant produces a wide range of storage batteries in every capacity and voltage for the needs of aircraft, ships, diesel locomotives, motor vehicles, battery-powered vehicles, and miscellaneous applications.

PRIMARY BUSINESS: Batteries

FORMER MINISTRY SUBORDINATION: Ministry of the Electrotechnical Industry and Instrument Making

APPROXIMATE EMPLOYMENT: N/A

PRINCIPAL OFFICERS:

Victor Valentinovich Artimov, Director
Grigoriy Grigoryevich Bugayenko, Chief Engineer
Efim Romanovich Bondar, Deputy Director
Aleksandr Vladimirovich Minyaylo, Deputy Director

OWNERSHIP: State-controlled

YEAR ESTABLISHED: N/A

MILITARY PRODUCT LINES: Batteries for ships, airplanes, and special applications (4-U)

installations for ships, diesel locomotives, motor vehicles, airplanes and many other uses; miniature batteries; potassium hydroxide electrolyte for nickel-cadmium batteries.

KEY TECHNOLOGIES/EQUIPMENT EMPLOYED: N/A

CONVERSION PROJECTS: N/A

HUMAN RESOURCES SUPPORT: N/A

OTHER RELEVANT INFORMATION: The city of Luhansk was formerly known as Lugansk, and, prior to that, as Voroshilovgrad.

ENTERPRISE NAME: LUHANSK MACHINE TOOL PLANT

ALTERNATE NAMES: Luganskiy Stankostroitel'nyy Zavod imeni Lenin

ADDRESS:

348000, Luhansk, Ukraine
Vulitsya Pchtovaya, 1
Luhans'k Machine Tool Plant

Telephone: (011-380-642) 51-54-18, 51-32-13

Telex: N/A

Teletype: 118182, 118203 OGON

Fax: (011-380-642) 52-22-53

E-Mail: N/A

GENERAL OVERVIEW: The Luhansk Machine Tool plant produces small arms ammunition for both military needs and for export. The plant also produces a variety of machine tools for industry as well as some consumer goods.

PRIMARY BUSINESS: Ammunition

FORMER MINISTRY SUBORDINATION: Ministry of Defense Industry

APPROXIMATE EMPLOYMENT: N/A

PRINCIPAL OFFICERS:

Engels Ivanovich Novokhatko, General Director

OWNERSHIP: N/A

YEAR ESTABLISHED: N/A

MILITARY PRODUCT LINES: 5.45mm and 7.62mm ammunition

CIVIL PRODUCT LINES: Manufacturing centers, vertical milling machine tools, drilling rigs, assembly lines for disposable syringe production, typewriters, household tools, locks, electric irons and rollers, toys, and furniture accessories.

KEY TECHNOLOGIES/EQUIPMENT EMPLOYED: N/A

CONVERSION PROJECTS: The plant began the coinage of 10, 25, and 50 kopeck currency in 1994.

LVIV

ENTERPRISE NAME: ELEKTRON JOINT STOCK COMPANY

ALTERNATE NAMES: Aktsionernoye obshchestvo "Elektron", AO Elektron, Lviv Elektron Television Plant, Lviv Elektron Production Association, NPO Elektron, Lviv Elektron Concern.

ADDRESS:

290600, Lviv, Ukraine
Vulitsya Storozhenko, 30
Elektron Joint Stock Company

Telephone: (011-380-322) 72-16-44, 35-43-84, 34-01-87, 33-53-91

Telex: 234125

Teletype: N/A

Fax: (011-380-322) 33-63-72

E-Mail: N/A

GENERAL OVERVIEW: The Elektron Joint Stock Company produces mainly television receivers and communications equipment, including equipment for radio and television broadcasting. The company, known previously as the Lvov Elektron Scientific Production Association, had been the main producer of black and white television sets in the former Soviet Union.

PRIMARY BUSINESS: Television receivers

FORMER MINISTRY SUBORDINATION: Ministry of the Radio Industry

APPROXIMATE EMPLOYMENT: N/A

PRINCIPAL OFFICERS:

Viktor Aleksandrovich Rybynok, General Director

OWNERSHIP: Joint Stock Company

YEAR ESTABLISHED: N/A

MILITARY PRODUCT LINES: Television equipment

CIVIL PRODUCT LINES: Television sets, Household radio products, communications equipment, including equipment for radio and television

broadcasting, computer-related equipment, other electrotechnical equipment and materials.

KEY TECHNOLOGIES/EQUIPMENT EMPLOYED: N/A

CONVERSION PROJECTS: N/A

HUMAN RESOURCES SUPPORT: N/A

OTHER RELEVANT INFORMATION: In 1993, the Elektron Joint Stock Company developed a new generation of television receivers using computer technology provided by the American firm Apollo. The city of Lviv was formerly known as Lvov.

**ENTERPRISE NAME: LVIV FACSIMILE-TELEGRAPH EQUIPMENT
PRODUCTION ASSOCIATION**

ALTERNATE NAMES: Lvovskoe Proizvodstvennoe Obyedinenie
"Facsimilno-Telegrafnoy Apparatury", Lviv 50th Anniversary of the
October Revolution Production Association

ADDRESS:
290000 Lviv , Ukraine
Vulitsiya Turgeneva, 72
Lviv Facsimile-Telegraph Equipment Production Association

Telephone: (011-380-322) 35-32-10, 39-26-05, 34-00-85
Telex: N/A
Teletype: 234124 FORT
Fax: (011-380-322) 35-33-10, 34-13-36
E-Mail: N/A

GENERAL OVERVIEW: The Lviv Facsimile-Telegraph Equipment
Production Association is involved in the research, development
and production of facsimile telecommunications and data
transmission equipment. The production association includes a
production plant (the Telegraph Apparatus Plant), and a research
arm (the Foton Special Design Bureau).

PRIMARY BUSINESS: Telecommunications

FORMER MINISTRY SUBORDINATION: Ministry of Communications
Equipment Industry

APPROXIMATE EMPLOYMENT: N/A

PRINCIPAL OFFICERS:
Aleksandr Fillipovich Soroka, General Director
Yuriy Viktorovich Yeliseyev, Deputy General Director
Olgerd Konstantinovich Timofeyev, Design Bureau Director

OWNERSHIP: N/A

YEAR ESTABLISHED: N/A

MILITARY PRODUCT LINES: Communications and data transmission equipment

CIVIL PRODUCT LINES: Telegraph and facsimile equipment, signal conversion data transmission equipment, multi-channel frequency multiplexing data transmission equipment, domestic radioelectronics, radio receivers, radiogrammaphones, tuners, tape recorders, and loudspeakers.

KEY TECHNOLOGIES/EQUIPMENT EMPLOYED: N/A

CONVERSION PROJECTS: N/A

HUMAN RESOURCES SUPPORT: N/A

ENTERPRISE NAME: LVIV KINESKOP PRODUCTION ASSOCIATION

ALTERNATE NAMES: Lvovskoye PO "Kineskop," Kineskop Production Amalgamation

ADDRESS:

290015 Lviv, Ukraine
Vulitsya Turgeneva, 73
Lviv Kineskop Production Association

Telephone: (011-380-322) 34-01-35, 35-32-20, 35-32-24

Fax: (011-380-44) 225-72-11

Teletype: 234454 LIRA

GENERAL OVERVIEW: The Lviv Kineskop PO produces a variety of cathoderay tubes and electro vacuum instruments for military and civil use. It also includes five smaller plants in a round LUIV which produces tube components and domestic equipment. The plant in Stryy and the the Kolor Plant in Rogation are among the subordinate plants.

PRIMARY BUSINESS: Electronics

FORMER MINISTRY SUBORDINATION: Minister of Electronics Industry.

APPROXIMATE EMPLOYMENT: 12,000

PRINCIPAL OFFICERS:

Mykola M. Vashcheniuk, General Director
Oleksandr I. Popov, Point of Contact

OWNERSHIP: State-owned.

YEAR ESTABLISHED: 1940

MILITARY PRODUCT LINES: Aircraft flight control systems and missile complex control system elements.

CIVIL PRODUCT LINES: Color and black-and-white picture tubes; electrovacuum instruments; robots; electronic instrument-making equipment; electrovacuum glass articles; desk lamps; electric lamps; agricultural equipment; thermos flasks.

KEY TECHNOLOGIES/EQUIPMENT EMPLOYED: Glass-melting shops; electron gun production shops; picture tube assembly shops.

CONVERSION PROJECTS: The enterprise has submitted a conversion plan for a small-size color picture tube production organization to its Ministry.

ENTERPRISE NAME: LVIV MIKROPRIBOR PRODUCTION ASSOCIATION

ALTERNATE NAMES: Lvovskoye proizvodstvennoye obedineniye "Mikropribor," PO Mikropribor. Key facilities: Electromeasuring Instruments Plant, Microelectronics and Instrument-Building Special Design Bureau.

ADDRESS:

Lviv, Ukraine 290014
Vul. Nishchinskogo, 35
Lviv Mikropribor Production Association

Telephone: (011-380-322) 74-40-63, 79-94-04
Telex: 234112 MIKRO
Teletype: 234235 IRIS
Fax: (011-380-322) 71-69-37
E-mail: N/A

GENERAL OVERVIEW: The Lviv Mikropribor Production Association produces a variety of electrical measuring instruments, including microprocessor-based types.

PRIMARY BUSINESS: Electrical Measuring Instruments

FORMER MINISTRY SUBORDINATION: Ministry of Instrument-Building, Automation Equipment, and Control Systems

APPROXIMATE EMPLOYMENT: 6,000 Date: 1992

PRINCIPAL OFFICERS:

Vladimir Petrovich Pidkivko, Director

OWNERSHIP: State-owned.

YEAR ESTABLISHED: N/A

MILITARY PRODUCT LINES: Measuring Instruments

CIVIL PRODUCT LINES: Electrical measuring instruments; engineering, laboratory, and scientific instruments; instruments for the control and regulation of industrial processes; optical instruments and photographic attachments; amplifiers; voltage regulators; and digital converters.

KEY TECHNOLOGIES/EQUIPMENT EMPLOYED: Non-ferrous casting capacity.

CONVERSION PROJECTS: N/A

HUMAN RESOURCES SUPPORT: N/A

ENTERPRISE NAME: LVIV RADIOTECHNICAL CORPORATION (LORTA)

ALTERNATE NAMES: Lvivsky Main Factory "Lorta," Lviv Lorta, the Lviv Lorta Association, Lviv Radio Engineering Equipment Association, Instrument Manufacturing Plant Lorta, Zavod imeni Lenina

ADDRESS:
290601, Lviv, Ukraine
Vulitsya Patrona-1,
Lviv Radiotechnical Corporation

Telephone: (011-380-322) 62-37-81
Fax: (011-380-0322) 62-37-81

GENERAL OVERVIEW: The Lviv Radiotechnical Corporation is a major producer of radio electronic and communications equipment. It is Ukraine's leading producer of electronic measuring equipment, as well as onboard and ground-based radio systems.

PRIMARY BUSINESS: Telecommunications, electronics

FORMER MINISTRY SUBORDINATION: Minister of the Radio Industry.

APPROXIMATE EMPLOYMENT: 15,000

PRINCIPAL OFFICERS:
Evgen Ivanovich Sitnik, General Director
Taras Vasyliovych Fedak, Point of Contact

OWNERSHIP: State-owned.

YEAR ESTABLISHED: 1944

MILITARY PRODUCT LINES: Radio electronics and communications equipment for military use.

CIVIL PRODUCT LINES: General purpose cathode-ray oscilloscopes, time interval and digital meters, electronic measuring instruments, radar equipment, radio receivers, storage batteries, electricity/gas water meters, microwave ovens, and washing machines.

KEY TECHNOLOGIES/EQUIPMENT EMPLOYED: LORTA has a range of technologies and equipment for producing electronic equipment of high complexity;

high-frequency equipment; printed circuit boards; galvanic-varnish and dye coatings; and metal castings.

CONVERSION PROJECTS: LORTA is developing a new energy source technology that has a significantly enhanced capacity. It is also working on chemical sources of energy, sophisticated consumer devices, and television equipment.

HUMAN RESOURCES SUPPORT: N/A

OTHER RELEVANT INFORMATION: LORTA has more than 380,000 square meters of production floorspace.

ENTERPRISE NAME: POLYARON PRODUCTION ASSOCIATION

ALTERNATE NAMES: Proizvodstvennoye obedineniye "Polyaron," PO Polyaron

ADDRESS:

290619, Lviv, Ukraine
Vulitsya Ugorskaya, 14
Polyaron Production Association

Telephone: (011-380-322) 42-64-41, 42-70-35, 2-65-07
Telex: 234140 POST
Teletype: 234140 IZOTOP
Fax: (011-380-44) 224-81-86

GENERAL OVERVIEW: Polyaron specializes in the development and production of lasers, microcircuits, and vacuum tubes.

PRIMARY BUSINESS: Lasers

FORMER MINISTRY SUBORDINATION: Ministry of Electronics Industry

APPROXIMATE EMPLOYMENT: N/A

PRINCIPAL OFFICERS:

Alexandr M. Chaus, Director

OWNERSHIP: State-owned.

YEAR ESTABLISHED: N/A

MILITARY PRODUCT LINES: Lasers

CIVIL PRODUCT LINES: Laser-based medical equipment; integrated circuits; vacuum tubes; lamps; flashlights; capacitors.

KEY TECHNOLOGIES/EQUIPMENT EMPLOYED: N/A

CONVERSION PROJECTS: N/A

MYKOLAYIV

ENTERPRISE NAME: MYKOLAYIV BLACK SEA SHIPYARD PRODUCTION ASSOCIATION

ALTERNATE NAMES: PO "Chernomorskiy sudostroitelnyy zavod," Chernomorskiy Shipbuilding Yard Production Association, Nikolayev Southern Shipyard, Nosenko Shipyard, Chornomorsky Shipyard, CSZ

ADDRESS:

327011 Mykolayiv, Ukraine
Vulitsya Industrialnaya, 1
Black Sea Shipyard Production Association

Telephone: (011-380-512) 37-34-68, 36-03-58

Fax: (011-380-512) 36-32-56

Telex: 272114, ZEVS SU

Teletype: 272226 POBEDA

GENERAL OVERVIEW: One of the largest shipyards in the NIS, the Black Sea Shipyard was established to build and repair battleships and other large ships. It specialized in producing aircraft carriers and fishing trawlers. It has begun the production of tankers.

PRIMARY BUSINESS: Shipbuilding

FORMER MINISTRY SUBORDINATION: Ministry of the Shipbuilding Industry

APPROXIMATE EMPLOYMENT: 13,000

PRINCIPAL OFFICERS:

Igor Mykolayovich Ovdienko, General Director
Vadim Vasylovich Kuzmenko, Point of Contact

OWNERSHIP: State-owned.

YEAR ESTABLISHED: N/A

MILITARY PRODUCT LINES: Kuznetsov-class, Kyiv-class, and Moskva-class aircraft carriers.

CIVIL PRODUCT LINES: Tankers; fishing trawlers; cargo ships; hard alloy products;

ship equipment, including boilers, anchor chains, propeller shafts, and ship mechanisms; high-tonnage equipment for factories in the Ukrainian sugar industry.

KEY TECHNOLOGIES/EQUIPMENT EMPLOYED: Casting; mechanical processing; galvanization; instrumental production; welding.

CONVERSION PROJECTS: Tankers, sugar refining equipment.

HUMAN RESOURCES SUPPORT: N/A

**ENTERPRISE NAME: MYKOLAYIV 61 COMMUNARDS SHIPYARD
PRODUCTION ASSOCIATION**

ALTERNATE NAMES: Shipyard of "61 Kommunar," PO "Zavod imeni 61
Kommunarda," Nikolayev Northern Shipyard

ADDRESS:

327014 Mykolayiv, Ukraine
Vulitsya Admiralskaya, 38
61 Communards Shipyard Production Association

Telephone: (011-380-512) 35-40-59, 35-44-74
Fax: (011-380-512) 35-10-49
Telex: 272110 SHPIL
Teletype: 272117 NIKSU

GENERAL OVERVIEW: 61 Communards Shipyard was established to build, modernize, and repair battleships. The shipyard was a major producer of cruisers and destroyers for the Soviet Navy, including Kresta-class and Slava-class cruise missile cruisers and Kashin-class guided-missile destroyers. Civil shipbuilding programs include refrigerated cargo ships.

PRIMARY BUSINESS: Shipbuilding

FORMER MINISTRY SUBORDINATION: Ministry of the Shipbuilding Industry

APPROXIMATE EMPLOYMENT: 12,000

PRINCIPAL OFFICERS:

Viktor Oleksiyovich Lavrinko, Director
Mykola Oleksiyovich Bilik, Point of Contact

OWNERSHIP: State-owned.

YEAR ESTABLISHED: 1861

MILITARY PRODUCT LINES: Kashin-class guided-missile destroyers, the Kresta- and Slava-class guided-missile cruisers.

CIVIL PRODUCT LINES: Refrigeration ships; floating hotels; perishable cargo carriers;
ship repair work; furniture.

KEY TECHNOLOGIES/EQUIPMENT EMPLOYED: Casting; mechanical processing; galvanization; instrumental production; welding.

CONVERSION PROJECTS: Floating hotels, refrigeration ships.

HUMAN RESOURCES SUPPORT: N/A

OTHER RELEVANT INFORMATION: This enterprise has capacity to produce six refrigerated cargo ships a year.

ENTERPRISE NAME: MYKOLAYIV ZARYA PRODUCTION ASSOCIATION

ALTERNATE NAMES: Proizvodstvennoye obedineniye "Zarya", PO Zarya,
Zarya Southern Turbine Plant.

ADDRESS:

327018, Mykolayiv, Ukraine
Oktyabrskiy prospekt, 42-a
Mykolayiv Zarya Production Association

Telephone: (011-380-510) 22-11-47, 22-03-46

Telex: N/A

Teletype: 272131 DISK

Fax: N/A

E-mail: N/A

GENERAL OVERVIEW: The Mykolayiv Zarya Production Association specializes in the production of gas turbine engines for ships, electric-power stations, and compressor stations on main gas pipelines.

PRIMARY BUSINESS: Turbine engines

FORMER MINISTRY SUBORDINATION: Ministry of the Shipbuilding Industry

APPROXIMATE EMPLOYMENT: N/A

PRINCIPAL OFFICERS:

Vladimir Andreyevich Kholyavko, Directors
Vadim Vasilyevich Sorochn, Chief Engineer

OWNERSHIP: State-owned

YEAR ESTABLISHED: Pre-1960

MILITARY PRODUCT LINES: Gas turbine engines for navy vessels.

CIVIL PRODUCT LINES: Gas turbines (including 16 megawatt units for pumping stations on main gas pipelines); equipment for the manufacture and repair of ships; drilling machines and other metalcutting machine tools; power equipment; lamps and lighting fixtures; tractor hitches; sprinkling

machines; mixers; pneumatic transport equipment; steam radiators; hardware; bookcases; TV antennas, cabinets and safes, sporting vessels, household appliances and fixtures, and souvenirs.

KEY TECHNOLOGIES/EQUIPMENT EMPLOYED: N/A

CONVERSION PROJECTS: N/A

HUMAN RESOURCES SUPPORT: N/A

OTHER RELEVANT INFORMATION: The Mykolayiv Zarya Production Association is collocated with the Mashproyekt Scientific Production Association which develops the gas turbine engines produced at Zarya.

ENTERPRISE NAME: OKEAN SHIPYARD

ALTERNATE NAMES: Sudostroitelny zavod "Okean"

ADDRESS:

327050, Mikolayev, Ukraine
Okean Shipyard

Telephone: (011-380-51) 22-00-44, 35-80-48

Telex: N/A

Teletype: 27212 MAYAK

Fax: N/A

E-Mail: N/A

GENERAL OVERVIEW: The Okean shipyard is one of three in Mykolayiv that builds naval vessels. This shipyard specializes in commercial trawlers and fishing vessels as well as equipment for outfitting ships.

PRIMARY BUSINESS: Commercial ships

FORMER MINISTRY SUBORDINATION: Ministry of the Shipbuilding Industry.

APPROXIMATE EMPLOYMENT: N/A

PRINCIPAL OFFICERS:

Nodari Viktorovich Chanturiya, Director

OWNERSHIP: State-owned.

YEAR ESTABLISHED: N/A

MILITARY PRODUCT LINES: Naval vessels

CIVIL PRODUCT LINES: Trawlers and fish-processing ships, bulk carriers, research and training ships, deck equipment, ship furniture, and agricultural implements.

KEY TECHNOLOGIES/EQUIPMENT EMPLOYED: Advanced welding equipment imported from Germany and Sweden.

CONVERSION PROJECTS: Okean has built ore carriers for Norway and refrigerator ships for France.

HUMAN RESOURCES SUPPORT: N/A

OTHER RELEVANT INFORMATION: This shipyard has begun construction of a prototype roll-on, roll-off ship (8,000 deadweight tons) designed to international standards. These types of ships will replace the fish-processing vessels previously built in Okean.

ODESA-31

ENTERPRISE NAME: ODESA NEPTUN PRODUCTION ASSOCIATION

ALTERNATE NAMES: Odesskoye proizvodstvennoye ob'yedineniye "Neptun", PO Neptun.

ADDRESS:

270031, Odesa-31, Ukraine
Vulitsya Promyshlennaya, 28
Odesa Neptun Production Association

Telephone: (011-380-482) 24-60-14 (General Director), 24-60-53 (Commercial Director)

Telex: N/A

Teletype: 232549 AKKORD

Fax: (011-380-482) 22-51-89, 32-58-23, 32-20-64

E-Mail: N/A

GENERAL OVERVIEW: Neptun is a leading designer and producer of communications and related-remote control and signalling equipment for high-voltage electric power networks. The Association includes the Odesa Neptun Enterprise, the Odesa Resistor Plant, the Molniya Special Design Bureau, the Orbita Technical/Trade Center, the Technical Service Center, and the Mayak Agricultural Firm.

PRIMARY BUSINESS: Electronics (communications):

FORMER MINISTRY SUBORDINATION: Ministry of the Radio Industry

APPROXIMATE EMPLOYMENT: N/A

PRINCIPAL OFFICERS:

Vladimir B. Tkachenko, General Director
Aleksey V. Elagin, First Deputy Director and Technical Director
Natalya S. Boiko, Commercial Director

OWNERSHIP: State-owned.

YEAR ESTABLISHED: 1944

MILITARY PRODUCT LINES: Automatic acoustic detecting systems for locating artillery firing positions.

CIVIL PRODUCT LINES: High frequency equipment for protection, communication, telemetry, and remote tripping along high-voltage electric power lines; data transmission equipment; telephone exchanges for small businesses; medical equipment; agricultural equipment, including a root planting machine; foldable car trailers; consumer electronic equipment, including household electronic appliances.

KEY TECHNOLOGIES/EQUIPMENT EMPLOYED: N/A

CONVERSION PROJECTS: N/A

HUMAN RESOURCES SUPPORT: Housing, kindergartens, a resort on the Black Sea, shops, and cafeterias.

OTHER RELEVANT INFORMATION: The city of Odesa was formerly known as Odessa.

PAVLOHRAD

ENTERPRISE NAME: PAVLOHRAD CHEMICAL PLANT PRODUCTION ASSOCIATION

ALTERNATE NAMES: PO "Pavlohradskiy khimicheskiiy zavod"

ADDRESS:

323000 Pavlohrad Ukraine
Vul. Zavodskaya, 44
Pavlohrad Chemical Plant Production Association

Telephone: (011-380-5672) 9-52-30
Fax: (011-380-5672) 6-30-00, 6-22-24

GENERAL OVERVIEW: The Pavlohrad Chemical Plant produces industrial explosives; varnish; paints; glues; tooth pastes; and consumer goods.

PRIMARY BUSINESS: Chemical explosives

FORMER MINISTRY SUBORDINATION: Ministry of the Defense Industry

APPROXIMATE EMPLOYMENT: 4,500

PRINCIPAL OFFICERS:

Volodymyr Semenovich Dudko, Director
Ivan Oleksiyovich Solovyov, Foreign Department Manager

OWNERSHIP: State-owned.

YEAR ESTABLISHED: 1929

MILITARY PRODUCT LINES: Missile fuel for the SS-24 ICBM and munitions.

CIVIL PRODUCT LINES: Glues; anatomical gloves; paints; coatings; polyurethane foam; latex gloves; semiautomatic welding machines; consumer goods; toothpaste; perfume; cosmetics.

KEY TECHNOLOGIES/EQUIPMENT EMPLOYED: Molding, galvanic and mechanical production.

CONVERSION PROJECTS: The manufacture of enamels; paints; varnishes; coatings

based on synthetic resins; washing pastes and powders; abrasive disks; road-marking coatings; PVA; polyurethane foam; rubber gloves; perfumes; cosmetics; toys.

HUMAN RESOURCES SUPPORT: N/A

OTHER RELEVANT INFORMATION: Developed investment projects include the production of varnish and paint materials; water gel explosives (without trotyl); synthetic resins; tooth paste; polyurethane foam; cosmetic goods; and waste processing.

The city of Pavlohrad was formerly known in the Soviet Union as Pavlograd.

ENTERPRISE NAME: PAVLOHRAD MACHINE BUILDING PLANT

ALTERNATE NAME: Pavlograd Engineering Plant

ADDRESS:

323000 Pavlohrad, Ukraine
Vulitsya Telman, 10
Pavlohrad Machine Building Plant

Telephone: (011-380-5672) 3-13-15, 3-74-61
Fax: (011-380-5672) 3-13-15

GENERAL OVERVIEW: The plant machines, builds, and assembles parts and components manufactured from composite materials for aircraft. It is also involved in titanium casting.

PRIMARY BUSINESS: Missiles

FORMER MINISTRY SUBORDINATION: Ministry of General Machine Building

APPROXIMATE EMPLOYMENT: 6,800

PRINCIPAL OFFICERS:

Vitaly Mikhailovich Shkurenko, General Director
Aleksandr Andreyevich Romanov, Deputy Director of Economy

OWNERSHIP: Joint-stock company

YEAR ESTABLISHED: 1931

MILITARY PRODUCT LINES: The SS-24 missile; fuel tanks for booster rockets and plastic ICBM rocket motor casings; parts, components, and assemblies for aerospace systems manufacturing.

CIVIL PRODUCT LINES: Casings for wind generators; titanium bicycle frames; titanium church bells; household food processors; electric buses; trolleys; excavating machines; wind turbine electric generators; electric and household machinery.

KEY TECHNOLOGIES/EQUIPMENT EMPLOYED: Machining; electric and gas welding; parts and components manufacturing from composite materials; electroplating; titanium casting; and assembly.

CONVERSION PROJECTS: This plant intends to produce space launch vehicles, such as the "Space Clipper" system, other civilian rockets; parts and components made from composite materials for aircraft; and electric household devices.

HUMAN RESOURCES SUPPORT: N/A

OTHER RELEVANT INFORMATION: The plant will support the dismantling of the SS-24 missile. It is affiliated with the Southern Machine Building Plant Production Association.

The city of Pavlohrad was formerly known in the Soviet Union as Pavlograd.

PERVOMAYSK

ENTERPRISE NAME: FREGAT MACHINE BUILDING PLANT

ALTERNATE NAMES: Pervomaysk 60th Anniversary of the USSR Machine Building Plant

ADDRESS:

329810, Pervomaysk, Ukraine
Vulitsya Korabelna
Fregat Machine Building Plant

Telephone: (011-380-516) 4-23-74, 4-23-16

Telex: N/A

Teletype: 272772 TRYUM

Fax: N/A

E-Mail: N/A

GENERAL OVERVIEW: The Fregat Machine Building Plant, located in the Mykolayiv Oblast, produces ship components including control systems, pumps, and hydraulic systems, as well as hoisting equipment for cargo loading and unloading.

PRIMARY BUSINESS: Ship components

FORMER MINISTRY SUBORDINATION: Ministry of the Shipbuilding Industry

APPROXIMATE EMPLOYMENT: Total: 3,200 Date: 1993

PRINCIPAL OFFICERS:

L.G. Fedorov, General Director

A.A. Zubko, Deputy General Director

OWNERSHIP: State-owned

YEAR ESTABLISHED: N/A

MILITARY PRODUCT LINES: Shipboard active control systems, ship components.

CIVIL PRODUCT LINES: Winches, cranes, ship conveyers, vessel elevators, ship pumps, piston pumps, hydraulic cylinders, hydraulic system filters, hydraulic

system valves, pneumohydro batteries, manipulators, auxiliary parts for boilers, pumping stations, sprinkler systems, agricultural equipment, food processing equipment, gas-flame equipment for metal-working, castings from aluminum and copper alloys, castings from carbon steel.

KEY TECHNOLOGIES/EQUIPMENT EMPLOYED: N/A

CONVERSION PROJECTS: The Fregat Machine Building Plant is part of a US-Ukrainian joint venture sponsored by the US Government to build housing modules for retired servicemen in Pervomaysk. The US firm working with Fregat is the Bill Harbort Company.

HUMAN RESOURCES SUPPORT: N/A

OTHER RELEVANT INFORMATION: N/A

POLTAVA

ENTERPRISE NAME: LTAVA JOINT STOCK COMPANY

ALTERNATE NAMES: Aktsionnernoye obshchestvo "Ltava", AO Ltava, PO Ltava.

ADDRESS:

314002, Poltava, Ukraine
Vulitsya Rozy Lyuksemburg, 72
Ltava Joint Stock Company

Telephone: (011-380-5322) 7-47-75

Telex: N/A

Teletype: 164119 KONTAKT

Fax: N/A

GENERAL OVERVIEW: The Ltava Joint Stock Company, formerly the Poltava Electromechanical Plant, specializes in the production of components for radioelectronic apparatus, mainly connectors, switches and resistors.

PRIMARY BUSINESS: Electrical components

FORMER MINISTRY SUBORDINATION: Ministry of the Electronics Industry

APPROXIMATE EMPLOYMENT: N/A

PRINCIPAL OFFICERS:

Geogriy Georgiyevich Popkov

OWNERSHIP: Joint Stock Company

YEAR ESTABLISHED: The predecessor Poltava Electromechanical Plant was established in 1947.

MILITARY PRODUCT LINES: Connectors

CIVIL PRODUCT LINES: Radioelectronic components including, variable film resistors and wire-wound resistors, connectors, switches, sockets, and wiring accessories; microwave semiconductor modules; lighting fixtures; sound-reproduction apparatus; electric ringers, ballpoint pens, fixtures for passenger cars and for household garages, toys.

KEY TECHNOLOGIES/EQUIPMENT EMPLOYED: High-precision machine tools, plastics technology.

CONVERSION PROJECTS: N/A

HUMAN RESOURCES SUPPORT: N/A

OTHER RELEVANT INFORMATION: A second electromechanical plant in Poltava, the Elektromotor Electromechanical Plant, is unrelated to the Poltava Electromechanical Plant, which has become the Ltava Joint Stock Company.

RIVNE

ENTERPRISE NAME: GAZOTRON PRODUCTION ASSOCIATION

ALTERNATE NAMES: Proizvodstvennoe Obyedinenie "Gazotron", PO Gazotron, Rovenskiy Zavod Gazotron

ADDRESS:
266022, Rivne, Ukraine
Vulitsya Gagarina, 39
Gazotron Production Association

Telephone: (011-380-3622) 2-40-26, 4-02-56
Telex: N/A
Teletype: 167116 ZARYA
Fax: (011-380-3622) 2-31-63
E-Mail: N/A

GENERAL OVERVIEW: The Gazotron Production Association produces laser and electronic equipment, computer peripherals, and medical equipment as well as several consumer products and electronic goods.

PRIMARY BUSINESS: Electronics

FORMER MINISTRY SUBORDINATION: Ministry of Electronics Industry

APPROXIMATE EMPLOYMENT: Total: 7,000 Date: 1992

PRINCIPAL OFFICERS:
Mikhail Iosivich Balko, General Director

OWNERSHIP: State-controlled

YEAR ESTABLISHED: N/A

MILITARY PRODUCT LINES: Lasers, laser power sources.

CIVIL PRODUCT LINES: Helium and neon lasers, graphic indicators, information screens, computer monitors and peripheral devices, domestic electronic equipment, electronic components (except resistors and integrated circuits), medical lasers, medical diagnostic instruments, ophthalmology equipment, electrovacuum instruments, gas-discharge and gas-filled electronic devices,

micro-welding and soldering instruments, special metal-working equipment, special cutting instruments, instruments from super-hard materials, polymer materials, photographic accessories, lighting fixtures, loud speakers, toys, holiday decorations.

KEY TECHNOLOGIES/EQUIPMENT EMPLOYED: N/A

CONVERSION PROJECTS: Laser apparatus for treatment of neurological diseases, allergies, and dental problems; a vacuum luminescent bulb with a service life 100 times longer than an ordinary bulb. The Gazotron Production Association, along with several other electronic component plants, is involved in a project to produce over 50 types of energy-efficient lighting.

HUMAN RESOURCES SUPPORT: N/A

OTHER RELEVANT INFORMATION: The city of Rivne was formerly known as Rovno.

SEVASTOPOL

ENTERPRISE NAME: MAYAK JOINT STOCK COMPANY

ALTERNATE NAMES: Aktsionnernoye Obshchestvo "Mayak", AO Mayak, Mayak Production Association, Mayak Plant.

ADDRESS:

335053, Sevastopol, Ukraine
Fiolentovskoye Shosse, 1
Mayak Joint Stock Company

Telephone: (011-380-692) 24-03-70, 24-00-64, 24-00-67, 24-03-70, 24-00-77

Telex: N/A

Teletype: 197128 MAYAK

Fax: N/A

E-Mail: N/A

GENERAL OVERVIEW: The Mayak Joint Stock Company in Sevastopol produces a variety of shipboard equipment including control systems and components, boilers, and communications systems. It also produces components for civil-use items such as incandescent lighting and electrowelding equipment.

PRIMARY BUSINESS: Electrotechnical equipment

FORMER MINISTRY SUBORDINATION: Ministry of the Shipbuilding Industry

APPROXIMATE EMPLOYMENT: Total: 2,200 Date: 1993

PRINCIPAL OFFICERS:

Fedor Panteleyevich Kalantayev, General Director
Vadim Ivanovich Shirokov, Chief Engineer

OWNERSHIP: Joint Stock Company

YEAR ESTABLISHED: N/A

MILITARY PRODUCT LINES: Electrotechnical equipment for naval vessels

CIVIL PRODUCT LINES: Ship control instruments and systems, ship boilers, auxiliary mechanisms, shaft lines, intraship communications and signals, accessories for incandescent lighting, electrical instruments for heating, electrowelding accessories,

electrical equipment and cable-fastening items, 50-channel AC telegraphs, fishing rods and tackle.

KEY TECHNOLOGIES/EQUIPMENT EMPLOYED: N/A

CONVERSION PROJECTS: N/A

HUMAN RESOURCES SUPPORT: N/A

ENTERPRISE NAME: MUSSON PRODUCTION ASSOCIATION

ALTERNATE NAMES: Proizvodstvennoe Ob'yedinenie "Musson", PO Musson, Musson Concern, Musson Scientific Production Association, Radiozavod imeni V.D. Kalmykova

ADDRESS:

335053, Sevastopol, Ukraine
Vulitsya Vakulenchuka, 29
Musson Production Association

Telephone: (011-380-069) 24-72-00, 24-42-60, 24-14-00

Telex: N/A

Teletype: 197135 APPARAT

Fax: (011-380-069) 23-80-81

E-Mail: N/A

GENERAL OVERVIEW: The Musson Production Association specializes in the production of shipboard and ground-based equipment for satellite, HF, and UHF communications; mobile satellite link stations; receiving equipment for satellite television and radio broadcasting; and consumer electronics. Musson includes the Kalmykov Radio Plant and Design Bureau.

PRIMARY BUSINESS: communications equipment

FORMER MINISTRY SUBORDINATION: N/A

APPROXIMATE EMPLOYMENT: Total: 6,800 Date: 1992

PRINCIPAL OFFICERS:

Igor Kalyuzhnyy, Deputy General Director
Valeriy Dmitrievich Zykov, Plant Director

OWNERSHIP: State-owned.

YEAR ESTABLISHED: N/A

MILITARY PRODUCT LINES: Ground-based and shipboard telecommunications equipment.

CIVIL PRODUCT LINES: Mobile satellite-link stations, emergency radio buoys and radar transponders for the Cospar-Sarsat system, automatic telephone exchanges and telefaxes, remote switches, household lighting, plastic toys.

KEY TECHNOLOGIES/EQUIPMENT EMPLOYED: N/A

CONVERSION PROJECTS: N/A

HUMAN RESOURCES SUPPORT: N/A

OTHER RELEVANT INFORMATION: The Musson Industrial Association, along with the Kiev Korolev PO and Smila Orizon, agreed to establish a joint venture in 1994 with the National Space Agency of Ukraine to manufacture GLONASS and NAVSTAR satellite navigation receivers and an INMARSAT station for the CIS market. A German firm, Atlas Electronic, is part of this joint venture. Musson is also cooperating with the French telecommunications firm, Alcatel, to assemble and install small office automatic telephone exchanges and telefaxes.

ENTERPRISE NAME: SEVASTOPOL PARUS INSTRUMENT BUILDING PLANT

ALTERNATE NAMES: Sevastopolskiy priborostroitelnyy zavod "Parus," Sevastapol Lenin Instrument Building Plant, Sevastapol Instrument Building Plant imeni V.I. Lenina.

ADDRESS:

335016, Sevastopol, Ukraine
Vulitsya Chekova, 1
Sevastopol Parus Instrument Building Plant

Telephone: (011-380-692) 71-73-82, 71-61-81, 71-30-05
Teletype: 197143 ELEKTRON

PRIMARY BUSINESS: Instrument production

GENERAL OVERVIEW: The plant manufactures instruments and automation systems for military and civil ships. It was established to perform research and design work and design radio receiving devices, simulators, consumer computers, and other sophisticated electronic equipment.

FORMER MINISTRY SUBORDINATION: Ministry of the Shipbuilding Industry

APPROXIMATE EMPLOYMENT: 5,000

PRINCIPAL OFFICERS:

Viktor Iosipovich Ledyayev, Director
Mykola Opanasovich Egorov, Point of Contact
E. I. Maxim, Deputy Commercial Director

OWNERSHIP: State-owned, in the process of conversion to a joint-stock company.

YEAR ESTABLISHED: 1971

MILITARY PRODUCT LINES: Combat information systems for submarines; depth recorders; missile guidance systems; navigation consoles; naval fire-control systems.

CIVIL PRODUCT LINES: Ship instruments; computers; computer power supplies; spare parts for computers; components and spare parts for radio receiving equipment; door hardware; toys; locking articles; home computers; stereo systems; transistor radios.

KEY TECHNOLOGIES/EQUIPMENT EMPLOYED: Mechanical processing; punching; galvanization; production of printed circuit boards.

CONVERSION PROJECTS: Production of marine instruments.

HUMAN RESOURCES SUPPORT: N/A

SEVERODONETSK

ENTERPRISE NAME: IMPULS SCIENTIFIC PRODUCTION ASSOCIATION

ALTERNATE NAMES: Nauchno proizvodstvennoe obiedinenie "Impuls", NPO Impuls

ADDRESS:

349940, Severodonetsk, Ukraine
Ploshchad Pobedy, 2
Impuls Scientific Production Association

Telephone: (011-380-6452) 2-77-15, 4-40-57, 4-32-02, 4-31-80

Telex: 115135 TEZIS

Teletype: 118611 LIRA

Fax: (011-380-6452) 2-97-38, 4-13-23

E-Mail: N/A

GENERAL OVERVIEW: The Impuls Scientific Production Association manufactures instruments, automation equipment and control systems. Included in the NPO is a research institute of control computer systems (NIIUVM) and an experimental production facility.

PRIMARY BUSINESS: Instrument Building

FORMER MINISTRY SUBORDINATION: Ministry of the Instrument Building Industry

APPROXIMATE EMPLOYMENT: Total: 1,500 Date: 1994

PRINCIPAL OFFICERS:

Viktor Georgievich Rakitin, General Director
Vyacheslav Ivanovich Smolin, Deputy Director
Vladimir Vasilyevich Rezanov, Chief Engineer
Vasiliy Mikhailovich Somkin, Deputy Director
Valeriy Pavlovich Azhippo, Plant Director
Valentin Vasilyevich Stognev, Deputy Plant Director

OWNERSHIP: State-controlled.

YEAR ESTABLISHED: 1956

MILITARY PRODUCT LINES: Control systems, integrated circuits, computers, software design.

CIVIL PRODUCT LINES: PC-based management and control microprocessor subsystems for use in the chemical, metallurgical, machine building, and energy industries; unit diagnostic complexes; printed circuit boards; and sporting goods.

KEY TECHNOLOGIES/EQUIPMENT EMPLOYED: N/A

CONVERSION PROJECTS: NPO Impuls is among several Ukrainian firms included in a program implemented by the Ukrainian Ministry of Machinebuilding, Military-Industrial Complex, and Conversion to produce turbines and other equipment for use in power plants. Impuls is tasked with creating control and automation equipment and ecological systems.

HUMAN RESOURCES SUPPORT: N/A

OTHER RELEVANT INFORMATION: N/A

SHOSTKA

ENTERPRISE NAME: ZVEZDA PRODUCTION ASSOCIATION

ALTERNATE NAMES: Proizvodstvennoye Obyedineniye "Zvezda", PO Zvezda, Shostka 50th Anniversary of the Great October Socialist Revolution Plant

ADDRESS:

245110, Shostka, Ukraine
Vulitsya Kuybysheva, 41
Zvezda Production Association

Telephone: (011-380-5449) 5-12-73

Telex: N/A

Teletype: 174577

Fax: (011-380-5449) 5-20-76

E-Mail: N/A

GENERAL OVERVIEW: The Zvezda Production Association produces chemicals and small arms ammunition, as well as a variety of consumer goods.

PRIMARY BUSINESS: Ammunition

FORMER MINISTRY SUBORDINATION: N/A

APPROXIMATE EMPLOYMENT: N/A

PRINCIPAL OFFICERS:

Yuriy Pavlovich Tugarov, Director

OWNERSHIP: State-owned.

YEAR ESTABLISHED: N/A

MILITARY PRODUCT LINES: Ammunition, detonators

CIVIL PRODUCT LINES: Included are cartridges for hunting, sporting goods, casings for electric igniters, electric detonators, pipe or tube couplings for spinning, standard chemical products, oil seals and gaskets, automatic switches, sprayers and atomizers, high pressure hoses, toilet seats, tiles, furniture, toys and christmas tree ornaments, and special industrial equipment.

SIMFEROPOL

ENTERPRISE NAME: SIMFEROPOL FIOLENT JOINT-STOCK COMPANY

ALTERNATE NAMES: Joint-Stock Company Plant Fiolent, AO "Fiolent," Fiolent Plant, Zavod "Fiolent," Simferopol Fiolent Plant

ADDRESS:

333017 Simferopol, Ukraine
Vul. Kievskaya, 34/2
Fiolent Joint-Stock Company

Telephone: (011-380-0652) 27-20-80, 27-20-42, 27-60-57
Fax: (011-380-652) 25-50-12
Telex: 222129 RTB
Teletype: 222131 ALFA

GENERAL OVERVIEW: The Fiolent Joint-Stock Company produces portable electric tools for private small enterprises.

PRIMARY BUSINESS: Tool production

FORMER MINISTRY SUBORDINATION: Ministry of the Ship Building Industry

APPROXIMATE EMPLOYMENT: 5,000

PRINCIPAL OFFICERS:

Olexander Sergeyevich Batalin, Director
Vladimir G. Levin, Agent for Business Contacts
EP Nikolaenko, Deputy Commercial Director

OWNERSHIP: Joint-stock company.

YEAR ESTABLISHED: N/A

MILITARY PRODUCT LINES: Naval navigation; engine control and damage control systems; power supply equipment; electromechanical equipment.

CIVIL PRODUCT LINES: Portable electric tools; navigation and machinery control systems; consumer electronic equipment.

KEY TECHNOLOGIES/EQUIPMENT EMPLOYED: Cold stamping; machining;

injection molding; rubber and plastic molding; powder metallurgy; electrochemical plating; paint coatings; printed circuit board manufacture; board wiring.

CONVERSION PROJECTS: The enterprise plans to produce portable electrical tools.

STRYY

ENTERPRISE NAME: STRYY TEMARA PLANT

ALTERNATE NAMES: Temara Joint-Stock Company, Zavod "Temara"

ADDRESS:

293500 Stryy, Lviv Oblast, Ukraine
Vulitsya Promyslova, 1
Temara Plant

Telephone: (011-7-03245) 5-73-15, 5-10-76, (0322) 76-73-33

Fax: (011-7-03245) 5-32-88, (0322) 76-73-33

Telex: 234158 WATRA SU

Teletype: 234158 WATRA SU

GENERAL OVERVIEW: The Temara Plant manufactures and sells components for picture tubes, monitors, and integrated circuits.

PRIMARY BUSINESS: Electronics

FORMER MINISTRY SUBORDINATION: Ministry of the Electronics Industry

APPROXIMATE EMPLOYMENT: 550

PRINCIPAL OFFICERS:

Zinovy Isaakovich Karpinsky, General Director
Yury Dyriv, Chief of Foreign Relations Bureau

OWNERSHIP: Joint-stock company since April 15, 1994

YEAR ESTABLISHED: 1980

MILITARY PRODUCT LINES: Components for electronic devices and integrated circuits.

CIVIL PRODUCT LINES: Aperture (shadow) masks; magnetic shields for picture tubes and monitors; lead frames for integrated circuits.

KEY TECHNOLOGIES/EQUIPMENT EMPLOYED: High-precision photolithography and ferric chloride etching; presses for stamping thin-sheet articles; lathes; milling machines.

CONVERSION PROJECTS: "Electronics of Ukraine 2000" Program, and picture tubes subprogram. The Temara plant has elaborated a business plan for a joint venture under the name Ukramask Ltd, which will be engaged in manufacturing shadow masks, lead frames for integrated circuits, and other electronic components. The plant requires \$50 million to finance the project. The payback period for the credit and interest is about 5 years from the startup of production. After the startup, the plant will have vacant production premises with a total area of 6 to 8 thousand square meters, which can be used for new manufacturing facilities. At present, vacant facilities exist for stamping articles 0.1 to 3.0 mm. thick.

HUMAN RESOURCES SUPPORT: N/A

SUMY

ENTERPRISE NAME: SUMY ELEKTRON PRODUCTION ASSOCIATION

ALTERNATE NAMES: Sumskoye proizvodstvennoye obedineniye "Elektron", PO Elektron

ADDRESS:

244030, Sumy, Ukraine
Vulitsya Komsomolskaya, 68A
Sumy Elektron Production Association

Telephone: (011-380-5422) 2-14-14

Telex: 131473 KRONA

Teletype: 174109 SPEKTR

Fax: N/A

E-Mail: N/A

GENERAL OVERVIEW: The Sumy Elektron Production Association specializes in the production of scientific instruments, especially electron microscopes and mass spectrometers. It is the sole Ukrainian producer of instruments for electron microscopy. The Association includes the Sumy Elektron Microscope plant, and the Scientific Research Institute of Electron Microscopes.

PRIMARY BUSINESS: Scientific instruments

FORMER MINISTRY SUBORDINATION: Ministry of the Electrotechnical Industry

APPROXIMATE EMPLOYMENT: Total: 5,000 Date: 1992

PRINCIPAL OFFICERS:

Ivan Semenovich Lyalko, General Director
Vladimir Nikolayevich Ovcharenko, Deputy General Director

OWNERSHIP: Currently state-owned, although Elektron has been selected by the Ukrainian government to be privatized.

YEAR ESTABLISHED: Circa 1965

MILITARY PRODUCT LINES: Measuring instruments for the navy.

CIVIL PRODUCT LINES: Electron microscopes, mass spectrometers, medical

instruments, instruments for ecology, electron-beam welding equipment, process control instruments, optical-mechanical instruments and time pieces, other scientific and laboratory instruments.

KEY TECHNOLOGIES/EQUIPMENT EMPLOYED: Computerized production, robots, flexible manufacturing systems.

CONVERSION PROJECTS: N/A

HUMAN RESOURCES SUPPORT: N/A

SVITLOVODSK

ENTERPRISE NAME: SVITLOVODSK RADIO PLANT

ALTERNATE NAMES: Svetlovodskiy radiozavod

ADDRESS:

317007, Svitlovodsk, Ukraine
Vulitsya Zavodskaya, 4
Svitlovodsk Radio Plant

Telephone: (011-380-5236) 9-22-22, 82-2-33

Telex: N/A

Teletype: 282838 SIGNAL

Fax: N/A

E-Mail: N/A

GENERAL OVERVIEW: The primary products of the Svitlovodsk Radio Plant are telephone, television, and radio transmission and reception equipment. A totally different line of products are cargo trailers for trucks and tractors, and both cargo and travel trailers for passenger cars.

PRIMARY BUSINESS: Radioelectronics

FORMER MINISTRY SUBORDINATION: N/A

APPROXIMATE EMPLOYMENT: N/A

PRINCIPAL OFFICERS:

OWNERSHIP: State-controlled.

YEAR ESTABLISHED: N/A

MILITARY PRODUCT LINES: N/A

CIVIL PRODUCT LINES: Entertainment centers consisting of a combined television and radio receiver plus a cassette recorder, portable radios and portable radio and cassette players, complete sets of components and parts to assemble and repair radios, computational apparatus, electric vacuum cleaners, radio stations (transmitters), radio relay stations (repeaters), multiplexing apparatus, trailers and semitrailers for trucks and tractors (some with tanks), mobile shops on trailers with

special bodies, trailers for passenger cars, and mobile homes.

KEY TECHNOLOGIES/EQUIPMENT EMPLOYED: N/A

CONVERSION PROJECTS: N/A

HUMAN RESOURCES SUPPORT: N/A

ENTERPRISE NAME: SVITLOVODSK OLIMP PRODUCTION ASSOCIATION

ALTERNATE NAMES: Svetlovodsk Industrial Union "Olymp," Svetlovodsk Olymp Production Association, Svetlovodskoye PO "OLIMP" Key Facilities: Svetlovodsk Radio Plant, "Signal" Design Bureau

ADDRESS:

317000 Svitlovodsk, Ukraine
Vulitsya Zavodskaya, 4
Svitlovodsk Olimp Production Association

Telephone: (011-380-5236) 9-22-15, 9-22-18, 2-05-35
Fax: (011-380-5236) 2-69-64
Teletype: 282768,28238 SIGNAL

GENERAL OVERVIEW: The Svitlovodsk Olimp PO produces radio communication equipment (troposcatter and digital radiorelay stations) and complex consumer electronic units (tele-tape recorders, tape recorders, portable radio sets, and educational computer products).

PRIMARY BUSINESS: Radio equipment

FORMER MINISTRY SUBORDINATION: Ministry of the Radio Industry

APPROXIMATE EMPLOYMENT: 4,000

PRINCIPAL OFFICERS:

Stepan Vaganovich Terzijan, General Director
Nikolay Petrovich Ivanov, Point of Contact
Vasily Danilovich Duzenkov, Point of Contact
Leonid Grigoryevich Shevchenko, Director Design Bureau

OWNERSHIP: State-owned.

YEAR ESTABLISHED: 1964

MILITARY PRODUCT LINES: Communications equipment

CIVIL PRODUCT LINES: Radio relay multichannel communication stations; tele-tape recorders; boilers; office furniture; educational computer products.

KEY TECHNOLOGIES/EQUIPMENT EMPLOYED: Mechanical treatment; punching

production; founding production; galvanic production; varnishing and painting; instrumental production; assembly. Eight production plants are planned.

CONVERSION PROJECTS: The plant produces 8-cm tele-tape recorders. Annual output is 15,000 units.

HUMAN RESOURCES SUPPORT: N/A

TERNOPIL

ENTERPRISE NAME: STATE PRODUCTION AMALGAMATION "ORION"

ALTERNATE NAMES: Orion

ADDRESS:

282023 Ternopil, Ukraine
State Production Amalgamation Orion

Telephone: (011-380-3522) 4-30-14

Telex: N/A

Teletype: N/A

Fax: (011-380-3522) 4-40-07

GENERAL OVERVIEW: Orion was established in 1982 for the manufacture of FM radio systems for armored vehicles and expanded to produce radio stations in 198. Orion began conversion to consumer products in 1990, making radio cassette recorders and TV antennas.

PRIMARY BUSINESS: Radios

FORMER MINISTRY SUBORDINATION: N/A

APPROXIMATE EMPLOYMENT: 3,500

PRINCIPAL OFFICERS:

Jaroslav M. Karpik, Director General
V. Ya. Kostetsky, Deputy Director General

OWNERSHIP: State-owned.

YEAR ESTABLISHED: 1982

MILITARY PRODUCT LINES: Military radios.

CIVIL PRODUCT LINES: Cassette recorders, TV antennas.

KEY TECHNOLOGIES/EQUIPMENT EMPLOYED: N/A

CONVERSION PROJECTS: Consumer electronics; walkie-talkies; car stereos; components.

HUMAN RESOURCES SUPPORT: N/A

OTHER RELEVANT INFORMATION: Orion is a large facility (over 10 hectares) comprised of administrative, production, warehouse, energy generation, and sewage disposal complexes.

VINNYTSYA

ENTERPRISE NAME: ZHOVTEN PRODUCTION ASSOCIATION

ALTERNATE NAMES: Proizvodstvennoe Obyedinenie "Zhovten", PO Zhovten, Oktyabr Production Association, Vinnitsa 60th Anniversary of the October Revolution Plant.

ADDRESS:

287100, Vinnytsya, Ukraine
Vulitsya Vatutina, 18
Zhovten Production Association

Telephone: (011-380-4322) 5-04-81, 5-40-94

Telex: N/A

Teletype: 119136 YAKOR

Fax: N/A

E-Mail: N/A

GENERAL OVERVIEW: The Zhovten Production Association produces a variety of electronic components, including integrated circuits and electro-vacuum devices, largely for use in video equipment and radioelectronics. The production association includes a production plant which formerly produced radio tubes and a research facility, the Geliy Scientific Research Institute.

PRIMARY BUSINESS: Electronics

FORMER MINISTRY SUBORDINATION: Ministry of the Electronics Industry

APPROXIMATE EMPLOYMENT: Total: 10,000 Date: 1992

PRINCIPAL OFFICERS:

Alim Nikitovich Romanenko, General Director

OWNERSHIP: State-controlled.

YEAR ESTABLISHED: N/A

MILITARY PRODUCT LINES: Integrated circuits, microelectronic components, radio tubes

CIVIL PRODUCT LINES: Small-, medium-, and large-scale integrated circuits

(Ics), including thin film hybrids and Ics in metal-glass, plastic, and other packages; silicon and beryllium-oxide transistors and semiconductor devices; amplifiers for radioelectronic equipment, acoustic cells, electrovacuum devices, gas-discharge and gas-filled electronic devices, electric air heaters, articles of electro-vacuum glass, vacuum indicators, liquid crystal displays, video monitors, specialized micro-welding and micro-soldering instruments, glass and crystal utensils, toys and holiday decorations.

KEY TECHNOLOGIES/EQUIPMENT EMPLOYED: N/A

CONVERSION PROJECTS: The Zhovten Production Association, along with several other firms including the Lviv Kineskop Plant, is involved in a project to expand production of cathode-ray tubes for use in televisions and computers. Zhovten is also participating in a project to develop and produce energy-efficient lighting along with several other Ukrainian electronics firms.

HUMAN RESOURCES SUPPORT: N/A

OTHER RELEVANT INFORMATION: The city of Vinnytsya was formerly known as Vinnitsa.

ZAPORIZHZHYA

ENTERPRISE NAME: ISKRA PRODUCTION ASSOCIATION

ALTERNATE NAMES: Proizvodstvennoye Obyedineniye "Iskra", PO Iskra.

ADDRESS:

330071, Zaporizhzhya, Ukraine
Vulitsya Magistralnaya, 84
Iskra Production Association

Telephone: (011-380-612) 65-15-03, 65-16-36, 61-34-33 (Design Bureau)
64-44-40, 65-18-83, 65-90-10 (Electromachinebuilding Plant)
65-16-92 (Tape Recorder Plant)

Telex: 127496 GRAD

Teletype: 127125 GRAD

Fax: (011-380-612) 65-90-10

E-Mail: N/A

GENERAL OVERVIEW: The Iskra Production Association is a major producer of ground-based radars. Its facilities include the Iskra Design Bureau, the Iskra Zaporizhzhya Electromachinebuilding Plant, and the Iskra Zaporizhzhya Tape Recorder Plant.

PRIMARY BUSINESS: Electronics (radar)

FORMER MINISTRY SUBORDINATION: Ministry of the Radio Industry

APPROXIMATE EMPLOYMENT: N/A

PRINCIPAL OFFICERS:

Igor Stepanovich Presnyak, General Director
Sergey M. Roschin, Deputy Director
Sergey Dmitriyevich Mazankin, Director of the Design Bureau
Vitaliy Pavlovich Belyy, Director of the Tape Recorder Plant

OWNERSHIP: State-owned.

YEAR ESTABLISHED: N/A

MILITARY PRODUCT LINES: Mobile air surveillance radars; mobile target acquisition radars for surface-to-air missile systems; mobile heightfinder radars.

CIVIL PRODUCT LINES: Air traffic control radars for airport and air route surveillance, cassette tape recorders, radio receiving equipment, consumer radioelectronic equipment.

KEY TECHNOLOGIES/EQUIPMENT EMPLOYED: N/A

CONVERSION PROJECTS: N/A

HUMAN RESOURCES SUPPORT: N/A

OTHER RELEVANT INFORMATION: The city of Zaporizhzhya was formerly known as Zaporozhye.

ENTERPRISE NAME: MOTOR SICH ENTERPRISE

ALTERNATE NAMES: Predpriyatiye "Motor Sich", PO Motor Sich, Zaporizhzhya Engine-Building Production Association.

ADDRESS:

330064, Zaporizhzhya, Ukraine
Vulitsya 8-go Marta, 15
Motor Sich Enterprise

Telephone: (011-7-0612) 61-47-77
Telex: 127435 ZARQ
Teletype: 127113 ZARYA
Fax: (011-7-0612) 65-58-85, 65-60-07
E-Mail: N/A

GENERAL OVERVIEW: Motor Sich is one of the largest aircraft engine producers in the former Soviet Union, incorporating eight machine-building factories in Ukraine. Its engines power a wide variety of aircraft, including the largest Russian cargo planes and helicopters. Motor Sich is currently producing up to 40 different aircraft engines, 90 percent of which are sold to Russia.

PRIMARY BUSINESS: Aircraft engines

FORMER MINISTRY SUBORDINATION: Ministry of the Aviation Industry

APPROXIMATE EMPLOYMENT: N/A

PRINCIPAL OFFICERS:

Vlacheslav Oleksandrovich Bohuslayev, General Director
Vlacheslav Mykhaylutsa, Deputy Director

OWNERSHIP: Joint-stock company.

YEAR ESTABLISHED: N/A

MILITARY PRODUCT LINES: Airplane and helicopter engines.

CIVIL PRODUCT LINES: Turbine engines for civil airplanes and helicopters, mobile automated gas-turbine power stations.

KEY TECHNOLOGIES/EQUIPMENT EMPLOYED: Precision casting of large-sized parts made of superalloys and titanium-based alloys; manufacture of honeycomb seals; explosion forming of parts; detonation-gas spraying of coatings and other processes, test cells for testing large-sized engines.

CONVERSION PROJECTS: N/A

HUMAN RESOURCES SUPPORT: N/A

OTHER RELEVANT INFORMATION: Motor-Sich is planning to participate in the Russian-Ukrainian "International Aviation Engines" financial-industrial group. The city of Zaporizhzhya was formerly known as Zaporozhye.

ENTERPRISE NAME: RADIOPRIBOR PRODUCTION ASSOCIATION

ALTERNATE NAMES: Proizvodstvennoye ob'yedineniye "Radiopribor", PO Radiopribor.

ADDRESS:

330063, Zaporizhzhya, Ukraine
Prospekt Lenina, 3
Radiopribor Production Association

Telephone: (011-380-612) 64-34-51
Telex: 127458 ARFA
Teletype: 127115 VESNA
Fax: (011-380-612) 64-33-70
E-Mail: N/A

GENERAL OVERVIEW: Radiopribor produces military tactical radio communications equipment as well as communications equipment for civil use.

PRIMARY BUSINESS: Radio communications equipment

FORMER MINISTRY SUBORDINATION: Ministry of the Radio Industry

APPROXIMATE EMPLOYMENT: N/A

PRINCIPAL OFFICERS:

Vladimir Aleksandrovich Kuratchenko, General Director

OWNERSHIP: State-controlled.

YEAR ESTABLISHED: N/A

MILITARY PRODUCT LINES: Tactical command and control communications vehicles; high-frequency radio communications transceivers.

CIVIL PRODUCT LINES: Radio communications transceivers, data transmission equipment with time multiplexing and optical communication systems, command broadcasting installations, sound amplification and relaying units, and linear amplifiers.

KEY TECHNOLOGIES/EQUIPMENT EMPLOYED: N/A

CONVERSION PROJECTS: N/A

HUMAN RESOURCES SUPPORT: N/A

OTHER RELEVANT INFORMATION: The city of Zaporizhzhya was formerly known as Zaporozhye.

INDEX BY INDUSTRY SECTOR

AVIATION

Components/Subsystems

Kharkiv Dzerzhinskiy Machinebuilding Production Association
Kyiv Elektronprylad Scientific Production Association

Design/Testing

Antonov Aviation Scientific Technical Complex
Feodosiya Research Institute of Aeroelastic Systems

Engines

Dnipropetrovsk Aggregate Plant Production Association
Motor Sich Enterprise

Final Assembly

Kyiv Aviation Production Association
Aviation Production Association

CHEMICALS

Donetsk Rubber Chemicals Plant
Pavlohrad Chemical Plant Production Association
Pridneprovskiy Chemical Plant
Pridneprovskiy Chemical Products Plant

COMMUNICATIONS

Chernihiv Radio Instrument Plant Production Association
Cherkasy Telegraph Apparatus Plant
Elektron Joint Stock Company
Kharkiv Radio Relay Production Association
Lviv Radiotechnical Corporation ("Lorta")
Musson Production Association
Odesa Neptun Production Association
Proton Production Association
Radiopribor Production Association
Radiy Production Association
Saturn Joint Stock Company
Svitlovodsk Radio Plant
Svitlovodsk Olimp Production Association

ELECTRONICS/INSTRUMENTS

Alfa Stock Company
Cherkasy Instrument-Building Plant
Dnepr Concern
Dnipropetrovsk Machine Building Plant
Facsimile-Telegraph Equipment Production Association
Gazotron Production Association
Graviton Production Association
Impuls Scientific Production Association
Ivano-Frankivsk Rodon Joint-Stock Company
Izyum Instrument-Building Plant
Kharkiv Khartron Production Association
Kvarts Production Association
Kyiv Arsenal Plant
Kyiv Elektronmash Production Association
Kyiv Elektropribor Production Association
Kyiv Instrument Production Association
Kyiv Korolev Radioprylad Plant
Kyiv Kvazar Production Association
Kyiv Mayak Plant
Kyiv Radiozavod Plant
Kyiv Relay and Automation Devices Scientific Production Association
Ltava Joint Stock Company
Lviv Kineskop Production Association
Lviv Mikropribor Production Association
Oktava Production Association
Orion Scientific Research Institute
Polyaron Production Association
Prometey Joint Stock Company
Stryy Temara Plant
Vesna Kontsern
Zarnitsa Production Association
Zhovten Production Association

LAND ARMS

Avtokraz Industrial Association
Kharkiv Malyshev Plant

MATERIALS/METALLURGY

Ferrokeram Production Association
Irpen Peremoga Combine
Kharkiv Turboatom Scientific Production Association
Krivoy Rog Voskhod Turbine Plant

Novokramatorsk Machine Building Plant Production Association
Pavlohrad Machine Building Plant

MISCELLANEOUS

Cherkasy Fotopribor Plant Production Association
Kharkiv Monolit Production Association
Kharkiv Tractor Plant
Kremenchuk Kryukovskiy Railroad Car Building Plant
Kyiv Artem Production Association
Luhansk Alkaline Battery Plant
Simferopol Fiolent Joint-Stock Company
Tochmash Joint Stock Company
Zvezda Production Association

MISSILES

Kharkiv Kommunar Production Association

MUNITIONS

Luhansk Machine Tool Plant

NAVAL

Feodosiya Morye Production Association
Fregat Machine Building Plant
Kherson Shipyard
Kyiv Petrovskiy State Automation Plant
Leninskaya Kuznitsa Shipyard
Mayak Joint Stock Company
Mykolayiv Black Sea Shipyard Production Association
Mykolayiv 61 Communards Shipyard Production Association
Mykolayiv Zarya Production Association
Okean Shipyard
Sevastopol Parus Instrument Building Plant
Slavutich Scientific-Industrial Association
Zaliv Butomy Shipyard

OPTICAL

Sumy Elektron Production Association

RADAR

Iskra Production Association

Kyiv Radar Production Association

SPACE

Southern Machine Building Plant Production Association

CHAPTER 2 - UKRAINE ECONOMIC AND TRADE OVERVIEW

This commercial overview was prepared by the Business Information Service for the Newly Independent States (BISNIS), U.S. Department of Commerce.

GENERAL INFORMATION

LOCATION: Ukraine is situated in Eastern Europe, on the north border of the Black Sea. It gained its independence from the former Soviet Union (FSU) in 1991 and now borders on the countries of Russia and Belarus to the north east. Poland, Romania, Slovakia, Hungary and the former Soviet state of Moldova lie to the west.

POPULATION: At 51.9 million, it is the second most populous Newly Independent State (NIS) with 18 percent of the population of the FSU. 67 percent of the population lives in urban areas. 33 percent is employed in industry and 21 percent in agriculture. 46 percent is female. The work force is well-educated and highly-skilled. Literacy is at 99 percent. Approximately seven million Ukrainians live abroad in the FSU. Another five million live abroad in other countries.

SIZE: Ukraine covers 235,443 sq. miles/603,700 sq. kilometers, approximately the same size as Texas. Ukraine is divided administratively into 24 oblasts, one autonomous republic (Crimea) and two cities with oblast status (Kyiv and Sevastopol).

TRANSPORT: Ukraine is well positioned for transportation services. The road network (273,700 km) is relatively well-developed for NIS countries. Major routes come from the west through Lviv and Kovel. 23,000 kilometers of railroads also connect Ukraine with Poland, Slovakia and Hungary, as well as points to the east and north in the NIS. Ukraine is also accessible by sea through several ports, the major ones located at Odesa, Mykolaiv, Mariupol, and the military port at Sevastopol. They all are accessible year-round and have rail connections. Ukraine has 706 airports, with the airports at Lviv, Odesa and Borispol in Kyiv regularly serving international traffic.

The increase in pipeline traffic is the result of Russian natural gas and oil sales to central and western Europe. The Soyuz pipeline transports gas from the Urals to western Europe. Urengoy-Uzhgorod transports natural gas from Siberia to Europe. Druzhba transports oil from West Siberia to Europe.

POLITICAL SITUATION: Ukraine, like many of the other former Soviet states, is in the midst of political turmoil. Political factions run the gamut between those that seek the return of the Soviet Union to those that believe shock therapy is needed for quick access into multinational economic, social, and military organizations.

Of the total 414 occupied seats in the Parliament (the Verkhovna Rada), 93 are held by the communist and socialist parties of Ukraine. The bloc holds a substantial amount of power in that there are no strong coalitions among the other parties to act as a counter. Many in the west generally agree that the Parliament lacks clear dedication toward substantial economic reform.

The major political issues in the country stem from economic reform and social responsibility. Other conflicts arise over regionalism in the country. The government is in the process of revamping the country's tax system. The tax bills proposed by the administration were refused in December and are now again before the Parliament. Passage of the tax reform bills will create an environment more transparent for foreign investment.

Regionalism also plays a major role in Ukraine's government. The western half of the country tends to be more nationalistic than the eastern, which is more like Russia. The Autonomous Crimea is culturally Russian- Russian is the local language and the population sympathizes with Russia more than Ukraine. In addition, there are two competing centers of political power in Donetsk and Dnipropetrovsk. President Kuchma, Prime Minister Lazerenko, and a large percentage of the administration hail from Dnipropetrovsk, stirring animosity among other regional groups.

Ukraine also has external issues with the Russian Federation. The levying of customs duties and ownership of the Black Sea Fleet being the two major cases.

ECONOMIC PERFORMANCE

Ukraine's economic performance continues the decline of previous years, but there are signs that show recovery is in the future. It is difficult to determine actual figures for Ukrainian development. The figures quoted do not include the 'shadow economy' which some calculate to be 40-60 percent of actual production.

Basic Economic Indicators

Change from Previous Year

	1993	1994	1995	1996
Official GDP	-14.2	-23	-11.8	-10.1 (Hr762.5 billion)
Gross Industrial Output	-7.6	-27.7	-12.7	-5.1
Gross Agricultural Output	1.5	-17	-3.9	-9
Consumer Goods Production	-15.3	-26.7	-19.1	-20.2
Inflation Rate	10,155	401	182	39.7%

Source: World Bank and Ukrainian Ministry of Statistics

INFLATION; Ukraine's inflation rate at the end of 1996 was 39.7 percent, surpassing the original goal of 24 percent. The target inflation rate for 1997 is 25 percent.

WAGES: The average monthly wage in Ukraine was HR 143 (USD82) in mid 1996. Wages vary dramatically. They are not surprisingly higher in Kyiv and the other major cities where the cost of living has increased. Wages for Western offices also tend to pay much higher wages than local offices. Of course, a large portion of the population supplements official income with 'shadow' income. Some estimates claim that as much as 80 percent of income goes unreported.

INDUSTRIAL PROFILE: Ukraine is a major center for heavy machinery and industrial equipment production including: mining; steel making and chemical equipment; less advanced (non-numerically controlled) machine tools; large electrical transformers; and agricultural

machinery. Ukraine's industries such as automotive, garment, foodstuffs, timber and paper are important suppliers for other NIS markets and have made some inroads in western countries. Natural resources include iron ore, coal, manganese, natural gas, oil, salt, sulphur, graphite, titanium, magnesium, kaloin, nickel, mercury and timber. Aluminum and other metals serve as one of Ukraine's largest exports.

Overall, industrial production dropped 5.1 percent in 1996. Consumer good production amounted to Hr22.3 billion, down 20.2 percent. Total retail sales in 1996 were Hr15.69 billion, down 11.4 percent from 1995. Ukrainian-made fabric production decreased 35.3 percent to 109.3 million square meters, knitted garments down 52.7 percent to 12.0 million items, and footwear production fell 37.5 percent to 12.4 million pairs.

Television production declined 52.6 percent to 114,900 units (only 29,100 were color); tape recorder production declined 58.4 percent to 43,700 units; refrigerator production decreased 22.3 percent to 430,600 units; washing machine output decreased 32.6 percent to 144,500 units, and radio production fell 61.9 percent to 46,800 units.

ENERGY PROFILE: Ukraine has a fragile energy sector that has undergone extreme energy shortages in the last several years. Last year was plagued with problems that brought a drop in electrical energy production (181,690 billion kWh as opposed to 192,640 billion kWh in 1995); coal miners went on strike several times; there were payment problems that interrupted power delivery from Russia; there was stress placed on a dilapidated nuclear power system. All of these problems stemmed from non-payment for electricity and still exist. According to the Ministry of Energy, in mid-February, debts for power stood at Hr three billion. Roughly one third of electrical bill goes unpaid. In turn, the power industry is in salary arrears of Hr 117 million.

Ukraine's coal industry has always been seen as a vital resource. The numerous miners' strikes continue to disrupt the entire country. In 1995, the industry provided 30.1 million tons of coal. The unrest caused a drop in production to 24.3 million tons in 1996.

Ukraine has a crude oil refining capacity of 1.1 million barrels per day. Some new deposits are being developed on the Black Sea, although Russia has disputed Ukraine's ownership of them. Ukrainian refineries are relatively modern compared to Russia's, although they are still technically unsophisticated and contain far less capacity compared with western refineries. Most Ukrainian refineries receive crude oil by pipeline from Russia's oil fields in western Siberia. In 1996, Ukrainian refineries processed 13.5 million tons of oil, 20.1 percent less than in 1995.

Nuclear Energy has been the fall back for the Ukrainian shortcomings in power generation. It is relatively inexpensive and can be sourced within the country, thus avoiding further debt to foreign countries for energy. Nuclear plants account for 25 percent of Ukraine's production capacity. In practice, the plants are responsible for almost 37 percent of actual production. Even so, production was down 12.8 percent.

Ukraine operates five nuclear plants totaling 14 reactors. They are located at Khmelnytskiy, Zaporizhia, Yuzhno-Ukrainka, Rivne, Chornobyl. Chornobyl receives more attention than the others due to the 1986 explosion.

Beyond the immediate needs of Chornobyl, all the nuclear power plants in Ukraine are in need of

improved security, monitoring and training for employees. This is presently impossible due to the gross non-payment by consumers of power bills. Workers at the plants go unpaid for months and safety improvement programs have almost come to a standstill.

AGRICULTURAL PROFILE: Gross agricultural production decreased nine percent in 1996. There was a 10 percent decrease in crop production and eight percent decrease in livestock.

Agriculture accounts for about 30 percent of Ukraine's overall economic output and employs about 20 percent of the total labor force. Ukraine is the second-largest grain producer of the NIS (approximately 20% of total production). Ukraine possesses some of the world's richest soil, with one third of the world's black soil (chernozem).

Declines in agricultural production have been attributed to Ukraine's dependence upon imported energy, the absence of privatization, the shortcomings of the sovkhoz and kolkhoz system, and a lack of foreign currency to purchase necessary inputs. Despite these problems with the Ukrainian agricultural sector, it is one of the brightest prospects for western trade and investment.

Gross Agricultural Production (thousand tons)

	1991	1992	1993	1994	1995	1996
Wheat	21,155	9,507	21,831	13,857	16,263	13,400
Barley	8,047	10,106	13,55	14,509	9,543	*
Rye	981	1,156	1,180	941	1,216	*
Maize	4,747	2,851	3,786	1,539	3,519	682
Sugar Beets	36,168	28,783	33,717	28,138	29,398	22,800
Potatoes	14,550	20,277	21,009	16,102	14,647	18,400
Sunflower	2,311	2,127	2,057	1,568	2,857	2,300
Grapes	673	657	666	395	452	*

Source: World Bank, Ukrainian Ministry of Agriculture

* unavailable

PRIVATIZATION PROGRAM: The 1996 privatization program is largely viewed by the Ukrainian government as having been successful. According to the State Property Fund, 16,434 small-scale enterprises were privatized, 35 percent more than anticipated. The official federal program is now complete. Local governments may continue small privatization. 3,007 medium and large enterprises were privatized, 10 percent fewer than planned. These auctions brought Hr245.5 million into the federal budget, more than double the expected revenue. An average of 350 auctions were held per month, up from the 160 monthly average of 1995. Since 1992, over 48,000 enterprises have been privatized

The State Property Fund also announced in January that 43.4 million Ukrainian citizens have now received their privatization certificates. They must be used by the end of 1997.

According to parliamentary law there is also a list of firms that cannot, for various reasons be privatized. The list now stands at 1,396 sites; 655 are agricultural; 165 in transportation; 262 coal industry; and 314 in the machine building industry.

The privatization of housing is also being completed, however on a much less formal basis. A

total of 2.9 million apartments (143.6 million square meters, 41.3 percent of apartments) have now been privatized. 566,400 apartments (28.8 square meters) alone were privatized in 1996. Most were simply given to the individuals or sold with minimum payments.

FOREIGN TRADE ENVIRONMENT

Foreign imports into Ukraine in 1996 totaled USD 18.6 billion. Exports totaled USD 19.4 billion. Increases over 1995 trade were 21.5 percent and 17.6 percent respectively. In 1996, barter constituted 20 percent of foreign trade, as opposed to 31 percent in 1995. Ukraine's trade pattern continues to shift as trade with non-NIS countries grows. FSU countries account for about half of Ukraine's foreign trade. Russia remains its largest trading partner. Ukraine's next largest trading partners are the United States, Germany, Switzerland, and Belarus.

BEST PROSPECTS FOR U.S. TRADE : The Government of Ukraine has designated as priority sectors the following industries: energy development, military conversion, agriculture and food processing, health care, telecommunications, transportation, information services, and banking.

According to the US & Foreign Commercial Service in Kyiv, best prospects for U.S. investment and exports to Ukraine, based on known market needs and priority sector development, are: agricultural chemicals, agricultural machinery and equipment, agricultural services, automotive parts and service equipment, business equipment, computers and peripherals, computer software and services, drugs and pharmaceuticals, education and manpower training, electric power systems, electronic components, electronic industry production and test equipment, energy-saving systems, food processing and packaging equipment, general consumer goods, general industrial equipment and supplies, industrial process controls, machine tools and metalworking equipment, medical equipment, mining industry equipment, nuclear safety systems and spent fuel disposal, pollution control equipment, pulp and paper manufacturing equipment (using non-traditional materials), renewable energy systems and equipment, and telecommunications equipment and services.

EXPORTING GOODS TO UKRAINE: American exports to Ukraine are on the rise. In the first half of 1996, USD179 million in goods were shipped to Ukraine from the United States, a 132 percent increase over the first half of 1995. With the rapid growth of activity, exporters new to the region, as well as those just beginning to export need to know the basic requirements of exporting to Ukraine. There are several general areas that can halt a shipment at customs. They are documentation, certification, licensing, temporary imports, duties, and taxes.

DOCUMENTATION: All products entering Ukraine must do so through approved custom clearance points. There are 70 approved points throughout the country. They are located at the border, ports, airports and at several railway and road crossings. Also, a number of these points are located within cities not adjacent to the border to ease the import process. Every checkpoint covers its own geographical area. Therefore, American exporters should decide whether to pay all taxes and duties at the border or at the customs checkpoint nearest to the imported goods final destination. Although the procedures are generally the same, the latter method tends to be favored. Customs clearance can be a lengthy process, so it is better that goods are stored and guarded closer to their final destination.

Upon crossing an international border point, goods will be classified in one of two ways: transit or

customs cleared. If marked transit the container or vehicle will be sealed by customs agents and then cleared at the final destination. Vehicles transporting goods marked for transit and subject to excise tax will be banded while they are in transit to their destination. The band is provided by customs and has an assigned number which is designated on the customs declaration.

The importer/freight forwarder should have all documents ready for presentation to the Ukrainian customs authorities, including:

- o The signed contract.
- o A cargo customs declaration with a description and the value of goods, terms of payment (i.e. cash, bank transfer, barter, etc.) It must include the terms of shipment. If payment is made by a bank transfer, the name of the bank, address, and account number should be included.
- o Import license if required (for weapons, pharmaceuticals, and foods).

CERTIFICATION: In 1994, a Ukrainian government decree imposed compulsory certification requirements for goods imported into the country. The decree specifies a list of goods subject to certification and regulates certification procedures. Certificates may be one of two types: (a) a certificate of acceptance of a foreign certification issued by a Ukrainian certifying agency and (b) a conformance certificate issued by a Ukrainian agency upon certification of goods. The decree states that certificates issued by foreign certification authorities are to be recognized in Ukraine only to the extent provided in international treaties to which Ukraine is party. As there are no intergovernmental agreements on product certification between Ukraine and the US, a foreign certificate of acceptance will not be honored without first testing the product.

To apply for Ukrainian certification, the following foreign certification documents must be submitted:

- o Application stating that the company wishes to certify imported products
- o Certificate of conformance Standard (technical conditions) of production and the procedures for certification
- o Certificate of accreditation of the testing laboratory
- o Protocol/summary of test results
- o Certificate of quality control
- o Certificate of origin

Derzhkomstandard has created a network of 93 certifying bodies and testing centers. Each center is responsible for testing a particular item. For example, only the Lviv-based Electroncert center issues certificates for televisions and VCRs, while certificates for radio communication equipment would be obtained from a lab in Sevastopol. Companies seeking testing however, should first contact Derzhstandart, as it makes the ultimate determination on certification.

In July, Derzhkomstandard adopted ISO 9000 standards for production systems certification. Based on these standards, Ukrainian certification bodies can evaluate the quality of the production system rather than the quality of a single product. The procedure for issuing ISO certificates will require a visit by Ukrainian standards specialists to the importer's production facilities to inspect system quality. Adoption of ISO 9000 series should facilitate smoother processing when it is fully implemented.

TEMPORARY ENTRY: Regulations pertaining to the entry of demonstration and exhibition samples are governed by the "Temporary Clause on the Regime of Temporary Import of Goods,

Property, and Means of Transportation" issued by the State Customs Committee in 1991. These regulations classify the imported items designated for demonstrations at exhibitions, fairs, and trade shows. It must be removed from Ukraine after use. Even companies without a legal presence in Ukraine can take advantage of the temporary import.

Temporarily-imported goods can remain in the country for one year from the date a customs declaration is submitted. The initial period listed can be extended by local customs. At the end of the period, the goods must be:

- o Removed from the country
- o Declared at customs for further use
- o Passed to customs for storage in a bonded warehouse
- o Demolished under customs control

Prior to export, samples are inspected by customs authorities to ensure the quantity and description of the products match that which was registered at the time of importation.

The customs fee for temporary import goods is USD30 for each customs declaration. When a large number of samples are imported, additional pages, costing USD15 each should be attached.

LICENSING: Earlier this year, the Cabinet of Ministers issued a resolution regulating import licenses. Goods subject to import licensing include agricultural chemicals, pharmaceutical products, veterinary medicines, cosmetics and hygiene products. Licenses are granted through the Ministry of Foreign Economic Relations and Trade. They are issued in coordination with the Ministries of Agriculture and Food and the State Committee for Medical and Microbiological Industry and hygiene products. A copy of the contract and import certificate are the basic documents for obtaining an import license.

IMPORT DUTIES AND TAXES: Three types of taxes are levied on goods imported into Ukraine: import duty, excise tax, and value added tax (VAT). VAT is consistently a 20 percent tax on the total value of the product. Import duties vary, but generally are around 16 percent. They are calculated as a percentage of the item's customs value plus shipping. Excise taxes are levied on such goods as alcohol, tobacco, cars, tires, jewelry, and other luxury items. Excise duty rates are calculated as a percentage of the declared customs value plus customs duties and customs fees paid for importing products.

New excise duties for alcohol, tobacco, and automobiles are not calculated by their customs value, but rather by volume, unit or weight imported. These taxes are declared in European Currency Unit (ECU) per unit and are paid in hryvna.

Those that are prepared with the proper documentation can be spared delays at customs points. Those seeking shortcuts at the border are finding it more difficult as the guidelines for customs inspectors become clearer and standardized. Exporting to Ukraine can be relatively simple.

EXPORTING GOODS FROM UKRAINE: Recent reform measures have changed or eliminated the export licenses necessary to export certain goods from Ukraine. There are, however, products that require export licenses. They are generally certain metals, animal hides, cereals and precious metals.

A presidential decree requires that Ukrainian companies, exporting highly marketable goods through barter agreements, deposit 50 percent of the value of the shipment at an authorized Ukrainian bank. This deposit can also be made by the foreign partner. The deposit will be refunded after the contract has been fulfilled.

Ukrainian companies that increase their exports will receive special tax concessions under new legislation. Companies that sell more than a quarter of their output for foreign exchange will be allowed to accelerate depreciation payments, regardless of whether they are in the public or private sectors. Ukrainian companies will also receive tax rebates for import duties paid for raw materials and components used to manufacture goods sold abroad for hard currency.

Once goods arrive at the border, the Ukrainian customs authority registers the goods and verifies per the contract that the goods are exportable. If the goods require an export license, the customs broker/freight forwarder only needs to present the contract and the export license. If the goods are not subject to an export license, Ukrainian customs is responsible for both confirming the authenticity of the shipment (per the contract) and identifying the price and quantity of the goods. The prices of the exported goods are identified based on world prices for the goods.

FREE TRADE ZONES: In 1994, the Government of Ukraine adopted a plan to establish special economic zones in Sevastopol, Odesa, Transcarpathian Oblast, Chop-Interport, and the Brody district in Lviv oblast. These zones will be categorized into one of the following groups: foreign trade, integrated production, research and development, tourism and recreation, banking and insurance, and cross border trade. There is already one zone, Sivash in Crimea that has already begun operation.

FOREIGN INVESTMENT ENVIRONMENT

Foreign investment in Ukraine since independence is somewhere between USD 1.2 and 1.5 billion. Sectors receiving the majority of investment are energy, agriculture and telecommunications. The United States is the largest foreign investor with at least 25 percent; Germany, Switzerland and Great Britain follow. South Korea is taking a strong interest in Ukraine and will make large investments.

REGULATIONS ON FOREIGN INVESTMENT: All foreign investments must be registered with the Ministry of Finance (a non-registered investment is denied all legal privileges). According to the law, the Ministry will make a decision within three days of submitting an application (one month after submission is more common). Foreign investors may hold local currency bank accounts. They are permitted to convert local currency earnings to dollars at the official exchange rate, but this is subject to hard currency availability. A withholding tax of 15 percent of the profits (income) of a joint venture is due at the moment of repatriation.

While there are no restrictions on the size of foreign investment and type of businesses permitted, licenses are required for investments in insurance and foreign trade (from the Finance Ministry), banking (from the Central Bank), for mining and use of renewable and non-renewable natural resources (from the Council of Ministers issued for a maximum of 49 years).

The New 'Law on Foreign Investments' took effect on 23 April 1996. The law replaces the law of 1993 and creates a much more stable, legislated environment for the foreign investor. Some of the highlights of the new law include:

- o More liberal definition of what constitutes a foreign investor and types of foreign investment

- o Ten year "grandfather" clause against any subsequent changes in legislation.
- o Protection from expropriation

TYPES OF FOREIGN INVESTMENT: There are three forms of private business in Ukraine; joint venture, a wholly-owned Ukrainian company, and a representative office. Essentially, a joint venture means some sort of cooperative business agreement between Ukrainians and foreigners. Joint ventures are, as resident companies, subject to the regulations that govern the specific legal form that the joint venture takes.

According to the Ukrainian Law on Foreign Investment, wholly-owned Ukrainian companies by foreigners is also allowed. In this sense, foreigners have the same rights as Ukrainians in establishing a business.

A representative office of a foreign company represents that foreign company and is not incorporated under Ukrainian law. They can be resident or non-resident type. A representative office is not registered as a separate legal entity in Ukraine, and therefore not subject to the same regulation as companies that actively sell and produce goods in Ukraine. Representative offices offer significant advantages and disadvantages which individual companies must investigate themselves.

UKRAINIAN TAXES: Ukrainian taxes are guided by the law 'On Taxation of Profits of Enterprises' which became effective in January 1995. The basic company tax rate in Ukraine is 30 percent of profit, although tax reductions are available for companies in the agricultural sector or other special categories.

There is another exception for non-resident companies without a permanent office. Those companies that are acting solely on contract and whose activities are labeled as 'passive activities' are taxed at 15 percent. A 15 percent tax is also levied on the repatriation of profit gained in Ukraine by non-residents.

Ukrainian tax payers are defined according to the 'Company Tax Law' as the following:

- o Subjects of entrepreneurial activities, banks (except the National Bank of Ukraine)
- o International organizations that do not have immunity and diplomatic privileges and conduct entrepreneurial activities in Ukraine.
- o Non-residents that conduct entrepreneurial activities through their permanent subsidiaries located in Ukraine.
- o Non-residents that repatriate profit gained from sources in Ukraine.

The new tax regime now applies taxes to the balance profit rather than the income of enterprises. Gross income includes profit derived from the total sum of an enterprise's profit from all types of activities conducted in Ukraine and includes profit realized from all types of production (services, work, etc.). The balance profit is determined by deducting (if applicable) the VAT, excise duties, import duties, customs fees, and the costs of production from the gross income.

The profit of general enterprises is now taxed at the basic rate of 30 per cent. Profit from intermediary activities, such as auctioning of material assets (except securities, corporate rights, currency assets, and other types of financial assets) is taxed at the rate of 45 per cent. Profit from conducting lotteries, casinos, gambling houses, slot machines and other gambling business is taxed

at the rate of 60 per cent.

The following entities are exempt from paying a profit tax:

- o Enterprises that produce and/or process agricultural products, using their own capacities, except producers of spirits, liqueurs, beer, tobacco, fur products, and wine, excluding wine that will be further processed.
- o Fish farms that catch and/or process fish, using their own capacities.
- o Veterinary plants that utilize animals corpses to produce protein fodder from the corpses.

Passive profit (dividends from corporative rights, interest from securities and financial assets trading, profit from financial leasing, insurance, and royalties) of non-residents that do not conduct entrepreneurial activities through their permanent office in Ukraine as well as incomes from providing technical services (engineering type) in Ukraine are taxed upon repatriation at the rate of 15 per cent.

Incomes from freightage paid by Ukrainian enterprises to non-resident companies for international freight forwarding services are taxed at the rate of 6 per cent.

The Ukrainian VAT tax is 20 percent. The VAT is calculated on the basis of the customs value of the goods, including any applicable customs duties and excise taxes. Upon resale of the goods, the VAT is based on the difference between the retail price and the customs value, including customs duties, excise taxes and the VAT. The VAT is payable at the point of customs clearance.

It is now also being applied to the products and services of foreign investors, but not to the sale of products or services sold for foreign currency in Ukraine because such sales are considered to be export sales.

A Ukrainian excise tax is also levied on the import of foods, alcohols, automobiles, tires, furs and jewelry. The rates are expressed as a percentage of the local producer's sales price and the declared customs value (including customs duty and customs fees paid upon importing). The payment should be made in KBV at the rate effective on the payment day. The value of excise duty should be calculated in the following way:

$$\frac{\text{Customs value} + \text{Import duty} + \text{Customs fee} \times \text{excise rate}}{100}$$

New excise duties for alcohol and tobacco are not calculated by their customs value, but by the amount of goods measured in volume, unit or weight imported into Ukraine. These duties are declared in European Currency Unit (ECU) per unit and paid in KBV AT the rate effective on the date of payment.

Another tax that is levied and is the source of contention for foreign investors is the social security tax paid by employers. The rate is 51 percent of wages.

CURRENCY: The hryvna is the official currency of Ukraine. It replaced the karbovanets in September 1996. The karbovanets, at the time of the hryvna's introduction, had depreciated to around 186,000 to the USD. They were exchanged for hryvna at a rate of 100,000 to 1. The hryvna originally was valued at 1.76 to the USD and has been fairly steady, now standing at about 1.82.

As part of the currency reform measures, the National Bank of Ukraine (NBU) now allows commercial banks to independently establish exchange rates for buying and selling currency within a margin of five percent. Exchange rates will be determined in the morning, and do not change during the day. Also, the NBU bans the use of foreign cash except for use in duty-free shops, hotels serving foreigners and travel and shipping agencies providing international services.

Corporate bodies can still hold foreign exchange accounts to settle bills in foreign currency. The NBU, moreover, has guaranteed private accounts and the rights of account holders to spend the money they hold in such accounts in cash or by bank transfer.

BANKING: Ukrainian banks remain unstable and find themselves in a difficult period of transformation. Foreign investors are confronted with the difficulty of transferring funds both domestically and internationally, currency conversion and the repatriation of profits in foreign currency.

The NBU issued new regulations in April on creating, registering and licensing commercial banks in Ukraine. The regulations allow citizens and foreigners to establish a commercial bank as a joint-stock company or as a limited partnership. Each foreign partner's participation in a commercial bank is limited to no more than 35 percent of the bank's operating fund. The new regulations also allow Ukrainian commercial banks to open affiliate offices in foreign countries after obtaining an NBU license.

A number of Ukrainian banks have joined the Society for Worldwide Inter-Bank Financial Telecommunications (SWIFT). SWIFT provides financial data communication and processing services to support the business activities of banks around the world. Through SWIFT, Ukrainian banks can conduct transactions with US banks online.

Foreign banks have been slow to enter Ukraine. In 1994, Credit Lyonnais Ukraine became a member of the UICE and began full banking operations in Ukraine. Seven other foreign banks have opened representative offices in Ukraine: Deutsche Bank, Dresdner Bank, Commerzbank, Westdeutsche, Banque de France, Magyar Kulkereskedelmi Bank and Banque de Caire. None of these are open for operations in Ukraine, but in February, Commerzbank and Chase Manhattan announced they would begin operations. Even in the absence of western banks, Ukrainian banks can serve international companies.

There are almost 100 Ukrainian banks that are authorized by the government to operate with foreign currency. In opening a bank account in Ukraine, there is substantially more regulation than in the United States.

The process for opening an account is regulated by the May 1996 NBU instruction aptly titled, "On the Procedure of Opening Accounts in the National or Foreign Currency of Ukraine". Accounts are currency-based and therefore the account holder must choose a denomination. An additional account is required for additional currencies. An account in hryvna is also needed for local operations. The process of opening these accounts is somewhat invasive and will require documentation from your state government. Additionally, to move funds from the hard currency account requires a license from the NBU.

There are several types of bank accounts under the NBU instruction. There are two categories; one

for legally registered entities and one for those that are not fully registered Ukrainian entities.

For those that are registered there are the settlement, current, loan, deposit, and budget accounts. The settlement account is used to make payments that are allowed for in the charter. It can also be used for transfer funds to and from a foreign entities. Companies usually open at least two, one in a hard currency, and another in hryvna. Current accounts are essentially the same but for use by non-commercial entities. The loan account is for administering borrowed or loaned funds. The deposit account is used as a savings account. The budget account is for receiving funds from Ukrainian government authorities.

There are two account types for non-registered entities. The N account is for non-resident representative offices. It can be used only for maintenance of the office. It can not be used to conduct business (no contracts, international transfers, or exchanges). The P account is used by permanent representative offices that do not exist as a separate legal entity. It is similar to the settlement account, but cannot be used for exchange or capital transactions.

Opening an account is relatively inexpensive. The cost varies per type of account and bank. Hryvna accounts are less expensive. Hard currency accounts can run up to 150 USD.

International transfers have become a standard practice and generally take one to three business days. Many banks in Ukraine have correspondent relations with banks in the United States. The US bank will transfer the funds to the Ukrainian party (assuming the Ukrainian party has a hard currency account with the authorization to receive foreign funds). Fees charges by Ukrainian banks are not large, running up to about .2 percent. Individuals receive the same service for approximately two percent. Fifty percent of the funds must then be converted at the NBU rate and placed in the hryvna account. The balance may be placed in the hard currency account.

Transferring funds from Ukraine is more difficult. Documentation, to include the contract, is required for foreign purchases. For repatriation of profits, a 15 percent tax is levied.

The Ukrainian government supports the use of wire transfers for domestic transactions. Although there are glitches in the system, this generally is more secure and the cash withdrawal fee of about one percent is avoided. There is also a monthly limitation on the amount of cash that can be withdrawn from an account. In February, the NBU announced that it would initiate an electronic card purchasing system in Odesa. Cash payments for companies are becoming less frequent.

NBU regulation also determines the cases when companies can withdraw funds from their accounts. Many companies report only being able to take funds from their Ukrainian accounts for payroll, travel and necessary fees. The banks can refuse unjustified withdrawals.

Much of the regulation in the Ukrainian banking industry which seems excessive is the result of the shadow economy. With an ability to monitor payments and international transfers, the government can reign in those individuals negligent in paying taxes. First Vice Premier Vasyl Durdynets, of the State Tax Administration reported collecting only 57.7% of expected revenues in 1996. The ability to track money is another step in improving that record.

INTELLECTUAL PROPERTY RIGHTS: Ukraine is committed legislatively to the protection of intellectual property, though enforcement remains inadequate. Ukraine is a successor state to

many of the conventions and agreements signed by the former Soviet Union. Ukraine abides by the Universal Copyright Convention (Geneva, 1952) and is preparing to join the Bern Convention on Protection of Literary and Artistic works (1971). In addition, in August 1992, the Ukrainian government adopted the Paris Convention for Protection of Industrial Property (March 2, 1883; amended in 1967 and 1979); the Madrid Agreement on the International Registration of Marks (April 14, 1891; amended in 1967 and 1979); and the Agreement on Patent Cooperation (June 1970; amended in 1979 and 1984). The Ukrainian Government has committed to improvement of intellectual property right protection in the U.S.-Ukrainian Trade Agreement signed in May 1992. Unfortunately, there are no penalties under Ukrainian law for such copyright or trademark infringements. Penalties are being considered in current legislative drafts.

Three state agencies are working to ensure intellectual property rights: the State Ukrainian Copyright Agency (literary and artistic works); the State Patent Office of Ukraine (industrial property), and; the Ukrainian Anti-Monopoly Committee's Board of Examination and Investigation is responsible for trademarks.

The Ukrainian Law on Trademarks and Service Marks was passed in 1994. This law provides for non-discrimination between the rights of Ukrainian citizens and foreign parties, provided that the foreign party is represented by a patent agent registered with Derzhpatent. Under this law, the term of protection is ten years, with a right to renew for an additional ten years. The law also stipulates that international agreements to which Ukraine is a signatory will take precedence over any Ukrainian law on intellectual property rights.

COMMERCIAL ARBITRATION: In February 1994, Ukraine enacted the International Commercial Arbitration Law. The Law parallels commercial arbitration laws set forth by the United Nations Commission on international trade law and is therefore in accordance with international standards. The Law covers a wide range of international commercial transactions, reflects principles of equality and fairness of treatment of parties, provides for a supportive relationship between the courts and arbitration tribunals, and includes basic provisions for the functioning of arbitration proceedings where the parties themselves have not made necessary provisions. Several recent cases have shown that receiving fair arbitration is not difficult. Enforcement of those decisions is difficult to obtain. There is no clear precedent and many courts are unsure of how to proceed in commercial cases.

TRAVEL INFORMATION: A passport and visa are required to enter Ukraine. Visas can be obtained in advance from the Embassy of Ukraine, located at 3350 M street NW, Washington D.C. 20007, Tel. (202) 533-0733, or the Ukraine consulates in Chicago and New York. A letter of invitation from a person, company, or organization in Ukraine or a tour company voucher, is currently required to obtain a visa. Note: Travelers who intend to visit Russia from Ukraine must have a Russian visa. The Russian Embassy in Ukraine is located at Prospekt Kutuzova, 8, Kyiv, tel: 380-44 294-6701.

All foreigners visiting Ukraine are required to register their passports with local law enforcement authorities. Visitors who do not register may experience delays when leaving Ukraine, or difficulty when trying to extend visas. The registration requirement is automatically met when foreigners stay in hotels, or when resident business persons register their businesses, or when students register under established exchange programs. Private visitors must have their hosts, relatives or landlords register their US passport at the local "Visas, Permits and Passport Department" office of the Ministry of

Internal Affairs (VVIR) office. Foreigners staying three working days or less need not register. A fee of \$10 or the Ukrainian equivalent is usually charged for visa extensions or passport registration.

MEDICAL FACILITIES: Medical care in Ukraine is limited. The US Embassy maintains a list of English speaking physicians in the area and an American Medical Center has opened in Kyiv. Generally, there is a severe shortage of basic medical supplies, including disposable needles, anesthetics, and antibiotics. Elderly travelers and those with existing health problems may be at risk due to inadequate medical facilities. There have been isolated cases of diphtheria, typhoid and cholera in Ukraine. Adequate vaccination protects against these diseases. Doctors and hospitals often expect immediate cash payment for health services. US Medical insurance is not always valid outside the United States. Travelers have found that in some cases, supplemental medical insurance with specific overseas coverage has proven to be useful. Some travelers may wish to purchase insurance that covers the cost of medical air evacuation. Further information on health matters can be obtained from the Centers for Disease Control's international travelers' hotline, tel: (404) 332-4559.

CRIME INFORMATION: The continued downward spiral of the Ukrainian economy has led to an increase in economically motivated crimes. Crime figures are unreliable, but it is certain that crime is rising, particularly in the economic and commercial spheres. The eastern, more industrial portion of the country tends to experience more crime. Only 60 percent actually go to trial and fewer result in convictions. There were about 12,000 cases of theft by government officials alone.

As for general crime, westerners and their residences are increasingly being viewed by the local criminal element as lucrative targets. Individuals planning to travel by road (especially in western cars) should practice extreme caution. The US Embassy in Kyiv has received numerous reports of attempted carjackings and armed confrontations with criminal elements in the area. Ukrainian authorities have been unable to provide information on specific roads and highways to avoid, but note that all highways hold the potential for criminal activity. The loss or theft abroad of a US passport should be reported immediately to the local police and the nearest US Embassy or consulate. The Department of State's pamphlet "A Safe Trip Abroad" provides useful information on guarding valuables and protecting personal security while traveling abroad.

INTERNAL TRAVEL: Although there have been no accidents in recent years, service standards on domestic flights in Ukraine are not up to western standards. Roads in Ukraine are in generally poor condition in comparison with those in the west. Gasoline and diesel fuel may be difficult to obtain and repair services are often unsatisfactory. Many westerners who choose to travel by automobile often rent a car and driver, although some self-drive rental cars are available. Trains are slow but generally safe.

The US Federal Aviation Administration has assessed Ukraine's civil aviation authority as in compliance with international aviation safety oversight standards for Ukraine carriers operating to and from the US. The same level of safety oversight would typically be applied to operations to other destinations. For further information, travelers may contact the Department of Transportation at 1-800-322-7873.

For current Department of State travel advisories, call (202) 647-5225, 24 hours a day.

UKRAINIAN HOLIDAYS:

January 1,2	New Year's
January 7-8	Orthodox Christmas
March 8	International Women's Day
May 1-2	International Solidarity Day
May 9-10	Victory Day
August 24	Independence Day
November 7-8	Revolution Days

US Exports to Ukraine 1994-1996

In USD Millions

HS Commodity	1994	1995	1996
Total	180.960	222.987	393.654
84 Machinery	30.903	67.565	91.479
27 Mineral Fuel, Oil Etc	0.900	0.909	56.038
98 Special Other	19.636	33.411	46.367
24 Tobacco	0.584	0.092	42.550
87 Vehicles, Not Railway	9.245	20.438	21.328
23 Food Waste; Animal Feed	16.985	16.900	18.463
02 Meat	0.034	9.890	16.324
85 Electrical	10.613	14.781	15.684
90 Optic(nt8544);Med Instr	11.952	10.390	12.604
22 Beverages	1.760	6.409	11.257
88 Aircraft,spacecraft	0.303	0.318	4.888
38 Misc. Chemical Products	5.803	0.761	4.200
03 Fish and Seafood	0.000	0.000	3.409
30 Pharmaceutical Products	1.510	1.579	3.067
39 Plastic	1.073	2.759	3.002
21 Miscellaneous Food	15.982	0.827	2.743
52 Cotton,+yarn,fabric	0.109	0.788	2.501
80 Tin	0.000	0.000	2.077
94 Furniture and Bedding	1.198	3.523	1.965
44 Wood	0.200	0.421	1.961
49 Books and Newspapers	1.204	1.333	1.885
31 Fertilizers	0.000	0.000	1.808
54 Manmade Filament,fabric	1.090	0.762	1.775
33 Perfumery,cosmetic Etc	3.769	1.325	1.704
82 Metal Tools and Cutlery	0.385	0.167	1.578
29 Organic Chemicals	0.243	0.678	1.502
16 Prepared Meat,fish,ect	0.163	0.204	1.426
73 Iron or Steel Products	1.540	1.164	1.323
34 Soap,wax,ect Dental Prp	0.292	0.264	1.320
15 Fats and Oils	1.138	0.822	1.112
40 Rubber	0.298	2.079	1.083
18 Cocoa	0.396	1.199	0.945
43 Furs	0.137	0.279	0.872
83 Misc. Of Base Metal	0.125	0.139	0.782
12 Misc Grain,seed,fruit	0.070	0.721	0.706
55 Manmade Staple Fibers	0.239	0.096	0.700
89 Ships and Boats	0.206	0.366	0.691
68 Stone and Plaster	0.012	0.006	0.602
19 Baking Related	1.095	0.138	0.556
36 Explosives	0.012	0.020	0.531
96 Miscellaneous Manufact.	0.095	0.135	0.527
28 Inorg Chem;rre Erth M	0.037	0.297	0.525
10 Cereals	22.99	5.362	0.511
11 Milling;malt;starch	0.000	0.343	0.459
93 Arms and Ammunition	0.030	0.082	0.409
71 Precious Stones,metals	1.461	0.300	0.402

72 Iron and Steel	0.151	3.632	0.386
57 Textile Floor Coverings	0.352	0.185	0.374
48 Paper,paperboard	0.313	2.987	0.349
59 Impregntd Text Fabrics	0.007	0.432	0.346
20 Preserved Food	0.431	0.306	0.346
95 Toys and Sports Eqp.	0.718	0.117	0.332
32 Tanning,dye,paint,putty	0.033	0.158	0.315
61 Knit Apparel	2.139	0.345	0.298
63 Misc Textile Articles	0.317	0.328	0.289
25 Salt;sulfur;earth,stone	0.018	0.064	0.282
07 Vegetables	0.028	0.050	0.253
70 Glass	0.097	0.370	0.245
92 Musical Instruments	0.052	0.193	0.228
64 Footwear	2.273	0.302	0.216
62 Woven Apparel	1.474	0.390	0.175
42 Leather,saddlery,bags	0.671	0.234	0.163
01 Live Animals	1.065	0.000	0.155
69 Ceramic	1.242	0.688	0.146
76 Aluminum	0.144	0.127	0.135
47 Woodpulp,paper Waste	0.000	0.000	0.123
45 Cork	0.000	0.021	0.111
60 Knit,crocheted Fabrics	0.003	0.128	0.110
17 Sugars	0.099	0.030	0.109
37 Photography Cinema	0.016	0.076	0.094
58 Special Woven Fabric	0.120	0.005	0.073
09 Spices,coffee and Tea	0.040	0.127	0.073
56 Wadding,felt,twine,rope	0.054	0.000	0.060
35 Albumins;mod Strch;glue	0.990	0.022	0.047
75 Nickel	0.000	0.000	0.041
66 Umbrella,sticks Ect	0.000	0.007	0.039
41 Hides and Skins	0.000	0.000	0.024
06 Live Trees and Plants	0.000	0.047	0.022
65 Headgear	0.000	0.000	0.014
53 Other Veg Textile Fiber	0.029	0.020	0.012
86 Railway Equipment	0.072	0.004	0.011
74 Copper	0.084	0.010	0.007
04 Dairy,birds Eggs,etc	1.211	0.044	0.004
08 Edible Fruit and Nuts	0.047	0.033	0.003
81 Base Metals	0.120	0.407	0.003
05 Other of Animal Origin	0.000	0.000	0.000
46 Straw,esparto Products	0.000	0.000	0.000
50 Silk;silk Yarn,fabric	0.000	0.000	0.000
51 Animal Hair+yarn,fabrc	0.000	0.007	0.000
67 Artif Flowers,feathers	0.006	0.000	0.000
91 Clocks and Watches	0.176	0.114	0.000
97 Art and Antiques	0.548	0.935	0.000

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Ukrainian Exports to the US 1994-1996

In USD Millions

HS Commodity	1994	1995	1996
Total	327	409	507
72 Iron and Steel	171.769	229.437	265.302
28 Inorg Chem;re Erth M	61.676	58.96	120.324
62 Woven Apparel	43.314	62.555	59.348
31 Fertilizers	0.000	6.581	16.484
27 Mineral Fuel, Oil Etc	2.504	5.677	10.276
35 Albumins;mod Strch;glue	2.203	4.576	5.190
76 Aluminum	4.995	3.188	5.070
81 Base Metals	5.364	0.435	2.648
95 Toys and Sports Eqp.	0.888	1.211	2.538
17 Sugars	5.384	2.110	1.822
61 Knit Apparel	1.845	3.001	1.756
84 Machinery	0.545	1.864	1.696
90 Optic(nt8544);Med Instr	0.335	0.452	1.552
99 Special Other Provision	0.754	1.001	1.269
26 Ores, Slag and Ash	1.653	5.284	1.203
98 Special Other	1.913	4.372	1.191
41 Hides and Skins	2.726	3.199	0.743
74 Copper	1.097	0.420	0.717
85 Electrical	1.583	1.364	0.685
29 Organic Chemicals	4.328	2.067	0.601
51 Animal Hair+yarn,fabrc	0.000	1.185	0.560
64 Footwear	0.249	0.382	0.462
38 Misc. Chemical Products	0.172	0.243	0.435
32 Tanning,dye,paint,putty	0.513	0.054	0.428
53 Other Veg Textile Fiber	0.000	0.034	0.379
92 Musical Instruments	0.000	0.236	0.355
48 Paper,paperboard	0.028	0.416	0.347
86 Railway Equipment	0.044	0.044	0.341
71 Precious Stones,metals	0.549	0.654	0.340
55 Manmade Staple Fibers	0.117	0.272	0.337
70 Glass	0.250	0.437	0.303
73 Iron or Steel Products	4.437	1.546	0.246
40 Rubber	0.004	0.170	0.237
97 Art and Antiques	0.284	0.107	0.235
33 Perfumery,cosmetic Etc	0.030	0.030	0.172
20 Preserved Food	0.000	0.000	0.137
23 Food Waste; Animal Feed	0.000	0.000	0.102
87 Vehicles, Not Railway	0.493	0.532	0.095
94 Furniture and Bedding	0.290	0.147	0.095
39 Plastic	0.698	0.046	0.075
01 Live Animals	0.064	0.098	0.074
88 Aircraft,spacecraft	0.018	0.000	0.068
10 Cereals	0.000	0.016	0.065
80 Tin	0.000	0.000	0.065
54 Manmade Filament,fabric	0.003	0.703	0.064
44 Wood	0.160	0.140	0.049

82 Metal Tools and Cutlery	0.164	0.021	0.044
68 Stone and Plaster	0.021	0.020	0.037
69 Ceramic	0.010	0.017	0.031
63 Misc Textile Articles	0.246	0.224	0.031
12 Misc Grain,seed,fruit	0.067	0.035	0.029
49 Books and Newspapers	0.009	0.113	0.029
96 Miscellaneous Manufact.	0.000	0.000	0.025
93 Arms and Ammunition	1.699	2.011	0.024
16 Prepared Meat,fish,ect	0.017	0.000	0.023
03 Fish and Seafood	0.000	0.005	0.023
22 Beverages	0.068	0.022	0.021
37 Photography Cinema	0.006	0.000	0.020
02 Meat	0.000	0.034	0.012
57 Textile Floor Coverings	0.007	0.024	0.008
25 Salt;sulfur;earth,stone	0.900	0.756	0.008
65 Headgear	0.059	0.000	0.008
75 Nickel	0.000	0.000	0.006
15 Fats and Oils	0.000	0.000	0.005
56 Wadding,felt,twine,rope	0.000	0.000	0.003
89 Ships and Boats	0.100	0.000	0.002
83 Misc. Of Base Metal	0.000	0.005	0.001
43 Furs	0.122	0.000	0.001
58 Special Woven Fabric	0.000	0.000	0.000
42 Leather,saddlery,bags	0.003	0.000	0.000
52 Cotton,+yarn,fabric	0.000	0.000	0.000
04 Dairy,birds Eggs,etc	0.075	0.000	0.000
05 Other of Animal Origin	0.000	0.010	0.000
06 Live Trees and Plants	0.000	0.000	0.000
09 Spices,coffee and Tea	0.000	0.026	0.000
11 Milling;malt;starch	0.000	0.003	0.000
19 Baking Related	0.002	0.000	0.000
34 Soap,wax,ect Dental Prp	0.000	0.004	0.000
67 Artif Flowers,feathers	0.000	0.001	0.000
78 Lead	0.072	0.000	0.000

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Current Commercial Agreements with the Government of Ukraine

Bilateral Investment Treaty (BIT)- On the 4 March 1994, the United States and Ukraine signed the Bilateral Treaty Concerning the Reciprocal Encouragement and Protection of Investment, Commonly referred to as the BIT. It guarantees: non-discriminatory treatment for US investments and operation in Ukraine, free transfers of capital and returns on investments, expropriation compensation, the right of third party international arbitration in the event of a dispute between a US firm and Ukrainian government and protection against performance requirements.

General System of Preferences (GSP)- On 4 March 1994, Ukraine was granted GSP status from the United States. GSP accords nonreciprocal tariff preferences to developing nations. Through this decision, 4400 semifinished and agricultural goods are, as the effective date, exempted for US import tariffs and customs duties.

Bilateral Trade Agreement (BTA)- In May 1992, the US and Ukraine signed a Bilateral Trade Agreement providing reciprocal most favorable nation (MFN) status, improved market access, and strong property rights protection. By creating commercial opportunities for new Ukrainian enterprises, this agreement will promote the development of a market-based economy in Ukraine. The agreement will benefit US companies by providing improved market access.

Bilateral Agreement on Civil Air Transport- On 31 March 1993, an extension of the US-USSR Civil Aviation Agreement entered into force. On 10 May 1995, a protocol on air services between the two countries entered into force.

Customs Agreement- On 21 November 1994, a bilateral agreement on cooperation and mutual agreement between customs Service entered into force.

Investment Incentive Agreement- 6 May 1992

Commercial Space Launch Treaty- 21 February 1996, sets the foundation for cooperation in commercial space launches.

Maritime Agreement- 23 January 1997- Allows for use of ports by vessels of each party.

Bilateral Tax Treaty- A convention for the avoidance of double taxation and the prevention of fiscal evasion was signed on 4 March 1994, but has not yet entered into force.

CHAPTER 3 - SOURCES OF FINANCING

INVESTMENT FUNDS OPERATING IN UKRAINE

(Condensed from BISNIS publication: *Sources of Finance for Trade and Investment in the NIS*, May 1996, and other sources)

This list is not comprehensive and will change as more information becomes available. Privately-managed funds are listed alphabetically and are included here for informational purposes only. Inclusion in this list does not constitute U.S. Government endorsement of any private fund.

FUNDS BACKED BY U.S. GOVERNMENT AND MULTILATERAL INSTITUTIONS

U.S. EXPORT-IMPORT BANK (Ex-Im)

The Ex-Im Bank is an independent U.S. Government Agency that provides export credit insurance, loan guarantees, direct loans, working capital guarantees, and limited recourse project finance. Ex-Im Bank's export credit insurance reimburses a U.S. exporter against losses should a foreign buyer default. Ex-Im Bank's loan guarantees provide repayment protection for private or public sector loans to creditworthy buyers of U.S. exported goods and services. The Bank offers medium and long-term loan guarantees. Although most guarantees provide comprehensive coverage for both political and commercial risks, guarantees covering only political risks are also available. Ex-Im Bank also provides medium and long-term fixed interest rate loans to foreign buyers of U.S. exports. The Bank's working capital guarantees encourage commercial lenders to make loans to U.S. businesses for various export-related activities. Finally, the Bank provides project financing for projects that generate sufficient hard currency through future earnings to service the debt.

Ex-Im Bank in Ukraine: Short and medium-term insurance, loans, and guarantees are available for sovereign risk transactions. For medium-term exports, Ex-Im requires an indication of host government support before accepting a final application. In addition, Ex-Im is willing to consider limited recourse financing in Ukraine.

Contact the State Export-Import Bank of Ukraine (UkreximBank). The contact, Mr. Victor Kapustin, Department Chairman, can be reached at (380-44-228-8386) or by fax at (380-44-229-8082. Ex-Im has an agreement with UkreximBank whereby Ex-Im Bank notifies the bank upon receipt of an application and UkreximBank indicates its interest in issuing a guarantee/Irrevocable Letter of Credit (ILC) before Ex-Im Bank will process the transaction. Therefore, it is important to have the potential Ukrainian buyer approach the UkreximBank for a guarantee/ILC.

For Additional Information on Ex-Im Bank Please Contact:

U.S. Toll Free Number: (800) 565-EXIM

Worldwide Number: (202) 565-3900

Bulletin Board Service: (202) 565-3826

Regional Offices	Telephone	Fax
New York	(212) 466-2950	(212) 466-2959
Miami	(305) 526-7425	(305) 526-7435
Chicago	(312) 353-8081	(312) 353-8098
Houston	(713) 589-8182	(713) 589-8184
Los Angeles	(310) 322-1152	(310) 322-2041

OVERSEAS PRIVATE INVESTMENT CORPORATION (OPIC)

OPIC is a self-sustaining independent agency of the U.S. Government that provides project finance, investment insurance, and investor services.

Project Finance: OPIC finances overseas ventures wholly owned by U.S. companies and joint ventures involving local companies and U.S. sponsor firms. The U.S. investor is expected to assume a meaningful share of the risk, generally through the purchase of at least 25 percent of the equity of the project. OPIC loan guarantees are best suited for those projects over \$10 million. Guarantees are issued to U.S. lending institutions on behalf of eligible U.S. investors and typically range from \$10 million to \$200 million. OPIC direct loans, reserved for overseas investment projects, primarily involve small and medium-sized companies and typically range from \$2 to \$10 million. OPIC will participate in up to 50 percent of the total project cost for a new venture and up to 75 percent of the total cost of an expansion. OPIC also provides guarantees for a number of privately managed investment funds.

Investment Insurance: OPIC provides political risk insurance to U.S. investors, contractors, exporters, and financial institutions involved in international transactions.

Investor Services: OPIC investor services consist of four components: Advocacy Services, Investment Missions, Reverse Missions and Conferences, and Marketing and Outreach.

For Additional Information on OPIC Programs Please Contact:

Overseas Private Investment Corporation
1100 New York Avenue, N.W.
Washington, D.C. 20527-0001
Phone: (202) 336-8621

General Information: (800) 424-OPIC
OPIC InfoLine: (202) 336-8799
OPIC FactsLine: (202) 336-8700

THE U.S. TRADE AND DEVELOPMENT AGENCY (TDA)

TDA provides grants for feasibility studies that determine the technical, economic, and financial feasibility of major projects and provide detailed data for making decisions on how to proceed with project implementation. The study is an essential step in the process of project development, since it is required by financial institutions in assessing the creditworthiness of an undertaking. TDA has developed a list of high priority sectors for its activities in the NIS. The sectors include oil and gas, power plants and distribution networks, transportation infrastructure, defense conversion, and electronics.

For Additional Information on TDA Programs Please Contact:

Daniel Stein, Regional Director
Tanya Shamson, Country Manager
U.S. Trade and Development Agency
SA-16, Room 309
Washington, D.C. 20523-1602
Phone: (703) 875-4357
Fax: (703) 875-4009

AGRIBUSINESS PARTNERS INTERNATIONAL

Region: Ukraine and the NIS

Manager: America First Companies

Capitalization: OPIC guarantee: \$100 million. Still raising capital.

Funds invested: n/a

Invest. Objective: Equity and debt. Interested in start-ups and joint ventures. Approximately \$5 to 10 million.

Industries: Agriculture, broadly defined. Includes food firms, infrastructure projects, privatization, food storage and distribution facilities.

Contact: Mr. Robert Peyton
America First Companies
1004 Farnam Street, Omaha, NE 68102
Phone: (402) 444-1630
Fax: (402) 345-8966

ALLIED CAPITAL INTERNATIONAL SMALL BUSINESS FUND

Region: Global

Manager: Allied Capital Advisors

Capitalization: OPIC guarantee: \$20 million

Funds invested: n/a

Invest. Objective: Equity investments in firms sponsored by qualifying U.S. small businesses.

Industries: Basic manufacturing and service industries

Contact: Mr. Cabell Williams II, President
Allied Capital Corporation

1666 K. Street, NW, 9th Floor
Washington, D.C. 20006
Phone: (202) 331-1112
Fax: (202) 659-2053

CEENIS PROPERTY FUND, L.P.

Region: NIS Eastern and Central Europe

Manager: Auberndale Properties

Capitalization: OPIC guarantee: \$160 million; sponsor equity: \$80 million; total: \$240 million.

Funds Invested: Beginning first round of investment.

Invest. Objective: Property development

Industries: Light manufacturing, office, warehouse and distribution center development projects.

Additional notes: Will also develop property held on long term leases

Contact: Mr. Noel Gould
CEENIS Property Fund
801 Pennsylvania Ave., N.W., Suite 930
Washington, DC 20004
Phone: (202) 543-8386
Fax: (202) 543-8382

DEFENSE ENTERPRISE FUND

Region: Ukraine, Russia, Kazakstan and Belarus.

Manager: Defense Enterprise Fund, Inc..

Capitalization: Department of Defense: \$27 million. Additional \$40 million anticipated FY 96.

Funds Invested: Approximately \$13 million.

Invest. Objective: Equity and debt. The fund makes investments only in joint ventures involving privatized enterprises or enterprises that commit in writing to privatization. An enterprise will be considered privatized when greater than 50% of the ownership and controls is in the private sector. At least one of the partners in any joint venture should be from a country outside the NIS, with preference given to joint ventures with U.S. involvement. Investments will be diversified among smaller enterprises or spin-off enterprises that have converted or are in the process of converting, and start-ups formed by former defense or military personnel. Investments range from \$1 to \$3 million.

Industries: Enterprises that include personnel and/or facilities currently or formerly involved in research, development, production or operation and support of the defense sector of four Republics of the former Soviet Union. Particular emphasis is given to facilities which helped to produce weapons of mass destruction, as well as firms associated with the production of command, control and communications equipment for military forces associated with these weapons.

Contact: Tom Maletta, Vice President & Chief Financial Officer
Defense Enterprise Fund
20 Custom House Street Ste. 1040
Boston, MA 02110
Phone: (617) 261-1929
Fax: (617) 261-1935

EUROPEAN BANK FOR RECONSTRUCTION AND DEVELOPMENT (EBRD)

Contact: Office of the U.S. Executive Director
One Exchange Square
London EC2A 2EH
United Kingdom
Phone: (011-7-44-71) 338-6569, 338-6569
Fax: (011-7-44-71) 338-6487

EBRD, the newest of the world's five multilateral development banks, began operation in April of 1991. It is the first international institution to provide financing exclusively in Eastern and Central Europe and the former Soviet Union. Based in London, the EBRD is capitalized at ECU 10 billion (about 13 billion U.S. dollars). Fifty-three member countries, the European Economic Community and the European Investment Bank are represented on its board of directors. The United States, which holds 10 percent of the shares, is the largest single member country shareholder, while the European Community nations have 51 percent.

The U.S. Executive Director supports the U.S. business community, assuring that U.S. companies directly benefit and participate in the Bank's procurement activities and financing. Companies are encouraged to bring potential projects to the Office of the U.S. Executive Director. Information regarding Bank policies and procedures is available from a number of sources, including the Office of Multilateral Development Banks, USDOC, and the National Trade Data Bank.

FIRST NIS REGIONAL FUND

Region: Ukraine, NIS (60% Russia).

Manager: Barings International Investment Management limited
Sovlink-American Corporation, Investment Advisor
Tokobank, Local Advisor

Capitalization: OPIC guarantee: \$160 million.

Funds invested: \$70 million, of which the majority was in direct investments.

Invest. Objective: Equity, possibly convertible debt or warrants. The fund will seek whenever possible to invest in companies with foreign currency revenues or substantial export earnings potential. Investments may take the form of corporate partnerships with leading foreign partners, later stage equity financing or investment in newly privatized entities. Investments will range in size from \$2 million to \$10 million.

Industries: About 60% targeted toward natural resource-related companies and infrastructure, including telecommunications.

Industries also include light manufacturing, consumer products and services, and real estate.

Contact: Richard Sobel, Director, Institutional Group
Baring International Investment Management
155 Bishopsgate
London EC2M3XY, England
Phone: ++44 (171) 214 1708/1871
Fax: ++44 (214) 214 1725

Terrence J. English
Sovlink-American Corporation
1221 Avenue of the Americas
New York, NY 10020
Phone: (212) 730-4868
Fax: (212) 730-2871

GLOBAL ENVIRONMENT EMERGING MARKETS FUND II

Region: Ukraine, NIS as well as emerging markets in Asia, Latin America, Europe, the Middle East and Africa.

Managers: Global Environment Management Corp.

Capitalization: \$120 million. OPIC guarantee: \$80 million.

Funds Invested: Approximately \$55 million.

Invest. Objective: Equity or equity related investments. The fund seeks significant minority positions in operating companies or projects with demonstrated cash flows, significant long-term revenue growth potential and high anticipated margins of profits from operations. Projected rates of return to the investor should substantially exceed the current risk-free return available in individual markets, with additional consideration for risks related to the volatility and convertibility of currency and the degree of liquidity for the investor. Investments of up to \$10 million.

Industries: Environment-oriented industries, especially those engaged

in developing, financing, operating or supplying infrastructure projects related to the delivery of clean energy (natural gas and renewable sources) potable water, and wastewater treatment.

Additional Notes: Portfolio companies can arrange for OPIC investment insurance against certain political risks and debt financing for projects that involve significant U.S. ownership.

Contact: Dr. H. Jeffrey Leonard, President
Global Environment Management Corp.
1201 New York Ave., NW Suite 220
Washington, DC 20005
Phone: (202) 789-4500
Fax: (202) 789-4508

AIG-BRUNSWICK MILLENIUM FUND (MAJOR PROJECTS FUND)

Not yet launched.

Managers: American International Group

Capitalization: OPIC guarantee: \$300 million.

Funds Invested: N/A

Invest. Objective: Equity investments

Industries: Large infrastructure projects including power, transportation, natural resource development and related industries.

Contact: Mr. Peter Yu
Managing Director
American International Group
70 Pine Street
New York, NY 10270
Phone: (212) 770-6661
Fax: (212) 514-9628

NEW CENTURY CAPITAL PARTNERS

Region: Ukraine, other NIS

Manager: New Century Holdings (NCH).

Capitalization: OPIC: \$250 million.

Funds invested: \$25 million (April 1996).

Invest. Objective: Equity investments in diversified manufacturing, financial, and service industries. This fund does not invest in start ups.

Industries: Diversified.

Additional notes: New Century Capital Partners has offices in Moscow, St. Petersburg, Almaty, and Kyiv, but all inquiries should be made to the New York office.

Contact: George Rohr, President
NCH Advisors
712 Fifth Avenue, 46th floor
New York, NY 10019-4108
Phone: (212) 641-3200
Fax: (212) 641-3201

NEW EUROPE EAST INVESTMENT FUND

Region: Ukraine, NIS, Central and Eastern Europe

Manager: Capital Research International (London)

Capitalization: \$130 million. ERBD:\$25 million. IFC: \$8 million.

Funds Invested: Only one investment as of end 1994.

Invest. Objective: Equity, up to 20% stake. Interested in privatized companies or newly established ventures that have some Western management. Investments range from \$5 - \$15 million.

Industries: Diversified

Additional Notes: No hard liquor, tobacco or firearms, must have a western partner.

Contact: William E.B. Parker
Capital Research International
25 Bedford Street
London WC2E9HN
Phone: ++44 (171) 257 6700, 257 6764
Fax: ++44 (171) 257 6767

U.S. CIVILIAN RESEARCH & DEVELOPMENT FOUNDATION (CRDF)

Region: Ukraine and the other NIS

Manager: U.S. National Science Foundation (NSF)

Capitalization: \$5 million gift from Mr. George Soros and a \$5 million allocation from the U.S. Department of Defense's "Nunn-Lugar" program.

Funds invested: n/a

Invest. Objective: To advance defense conversion by funding collaborative R&D commercialization projects between scientists and engineers in the U.S. and in the NIS. Level of funding \$10,000 to 80,000 over a two-year period. Average grant \$40,000 (\$20,000 per year over two years).

Additional notes: Priority given to NIS engineers and scientists formerly engaged in work on weapons of mass destruction. No proposal to exceed 20 pages in length. Send 10 copies.

Contact: Civilian Research and Development Foundation
1800 North Kent Street, Suite 1106
Arlington, Virginia 22209
Phone: (703) 526-9720
Fax: (703) 526-9721

THE WESTERN NIS ENTERPRISE FUND

Region: Ukraine, Belarus, and Moldova

Manager: Western NIS Enterprise Fund, Inc.

Capitalization: U.S. AID: anticipates capitalizing this Fund with \$150 million in foreign assistance appropriations over the next 3-4 years.

Funds Invested: \$12 million committed as of December 31, 1995.

Invest. Objective: Equity and debt. The Fund will actively seek corporate and financial partners from the U.S., Europe, and elsewhere. The Fund's focus will be on small and medium-sized private and privatizing firms with as many as 2,500 workers, although it is expected that most loans and investments will be aimed at firms that are considerably smaller than this threshold.

Industries: n/a

Additional Notes: The fund will offer technical assistance alongside investment. Additionally, the fund will be encouraged to use its U.S. Government funding to attract other resources for private sector development in the three states.

Contact: Scott Carlson, President & CEO
Western NIS Enterprise Fund
15 W. 39th Street, 11th Floor
New York, NY 10018
Phone: (212) 556-9320
Fax: (212) 556-9321

Natalie A. Jaresko
Western NIS Enterprise Fund
4 Muzeney Pereulok
250001 Kyiv, Ukraine
Phone: ++380 (044) 291 02 80; 291 02 81; 291 02 82
Fax: ++380 (044) 291 02 89

PRIVATE FUNDS

Privately-managed funds are listed alphabetically and are included here for informational purposes only. Inclusion in this list does not constitute U.S. government endorsement of any private fund.

JUNCTION INVESTORS LTD.

Region: Ukraine and other NIS countries, as well as Eastern Europe and China.

Manager: Junction Investors, Ltd. (JIL)

Capitalization: \$50 million.

Funds Invested: n/a

Invest. Objective: Equity and Debt. Preferred investments are small to medium-sized businesses with long-term growth potential. From \$1 million to \$5 million.

Industries: Infrastructure-related industry, in particular real estate and telecommunications.

Additional Notes: JIL provides management assistance when necessary, as well as arranges for additional debt and equity funding if needed.

Contact: Thomas R. DiBenedetto, President
Junction Investors, Ltd.
84 State Street, 2nd Floor
Boston, MA 02109
Phone: (617) 248 9600
Fax: (617) 248 9652

NEWSTAR

Region: Ukraine and other NIS countries

Manager: Newstar, Inc.

Capitalization: \$20 million.

Funds Invested: n/a

Invest. Objective: Equity. Preferred candidates are private, small to mid-size manufacturing enterprises that include a western partner.

Industries: Construction and related industries, food processing and distribution, warehousing, light manufacturing, and telecommunications.

Contact: Jeffrey Hammer, Director of Investments
Newstar
Vspolni Pereulok, 19/20
103001, Moscow, Russia
Phone: ++7-(095)-291-8338
Fax: ++7-(095)-291-2926

Brad Wegner, Investment Manager
Newstar
1001 Pennsylvania Avenue, NW
Suite 480-North
Washington, D.C. 20004
Phone: (202) 783 4155
Fax: (202) 628 5986

RUSSIA AND THE REPUBLICS EQUITY PARTNERS LP. (RARE)

Region: NIS, with concentration in Russia.

Capitalization: n/a

Invest. Objective: Equity in small to mid-sized businesses with both strong short-term profit potential and long-term growth potential. \$1 to \$5 million.

Industries: Diversified.

Additional Notes: Seeks active role on board of directors.

Contact: Herbert A. Denton, Partner
Russia and the Republics Equity Partners LP.

730 5th Avenue
New York, NY 10019
Phone: (212) 888-3200
Fax: (212) 888-3203

Joseph Condon, Chairman
Russia and the Republics Equity Partners LP.
Kamergersky Pereulok 5, Moscow, Russia
Phone: ++7 (095) 247 9051
Fax: ++7 (095) 229 1327

RUSSIA VALUE FUND, LP.

Region: Russia, NIS.

Manager: San Antonio Capital Management

Capitalization: \$48 million

Funds Invested; Approximately \$40 million

Invest. Objective: Equity and debt. Primarily interested in investments in publicly traded shares.

Industries: Oil and gas, power generation and transmission, telecommunications, shipping and transportation, construction materials, and industry.

Contact: Attention: Marketing Director/Russia Value Fund, L.P.
San Antonio Capital, P. O. Box 690327
San Antonio, TX 78269-0327

CHAPTER 4: **ADDITIONAL SOURCES OF INFORMATION**

Companies that are interested in pursuing defense conversion opportunities in Ukraine may contact Frank Carvalho, Editor, Ukraine Directory, Office of Economic Analysis, Bureau of Export Administration, U.S. Department of Commerce, at 202-482-0672 (fax: 202-482-3195 or 5650) for further information on the U.S. Government's assistance for defense conversion in Ukraine.

Advice and assistance on doing business in Ukraine may be obtained from the Commerce Department's Business Information Service for the Newly Independent States (BISNIS) at 202-482-4655 ext. 33 (Shawn Levsen).

The Commercial Service of the U.S. in Kyiv provides support and assistance to U.S. companies interested in investment opportunities in Ukraine. The staff in Kyiv have an extensive network of Ukrainian government and business contacts to support U.S. business interests in Ukraine and can provide business visitors with a full range of services.

The first American Business Center (ABC) has been opened in Ukraine. The ABC is located in Kyiv and can provide U.S. business representatives with an office away from home, complete with secretarial assistance, interpreter services, telephone, fax and copying service, as well as conference and exhibition space. U.S. business interests in Ukraine are also supported by the American Chamber of Commerce in Kyiv.

In the United States, the U.S. Department of Commerce's primary source of information on business in Ukraine is the Business Information Service for the Newly Independent States (BISNIS). BISNIS provides information on commercial opportunities in Ukraine through monthly newsletters, electronic databases, and business counseling services.

The International Executive Service Corps (IESC), which receives funding from the U.S. Agency for International Development and the Department of Defense, supports teams of industry experts that provide technical and managerial assistance to enterprises throughout Ukraine. IESC has an on-going presence in Kyiv, Kharkiv, Lviv, and Donetsk. Over the past several years IESC has worked with several hundred Ukrainian enterprises, including many of the enterprises in this Directory.

The addresses, telephone numbers, and fax numbers of these and other useful points of contact and information sources are given below.

U.S. Embassy

Location: Vul. Yuriya Kotsiubynskoho, 10
Kyiv, Ukraine 252053
Tel: (380-044) 244-7344, 244-7345, 244-7346, 244-7347, 244-7349,
244-4778
Fax: (380-044) 244-7450, 244-7351
Telex: 131142 CGKIVSU

U.S. Mail: (Name of Employee)
American Embassy Kyiv
U.S. Department of State
Washington, D.C. 20521-5850

Ambassador: The Honorable William G. Miller

U.S. & Foreign Commercial Service

Location: #7 Kudriavsky Uzviz - 2nd Floor
Kyiv, Ukraine 252053
Tel: (380-044) 417-2669, 417-1413, 219-1168, 219-1170
Fax: (380-044) 417-1419

U.S. Mail: U.S. & F.C.S.
American Embassy Kyiv
U.S. Department of State
Washington, D.C. 20521-5850

Senior Commercial Officer: Andrew Bihun
Commercial Officer: Mitch Larsen
BISNIS Coordinator: Maxim Bougriy

Embassy of Ukraine

3350 M Street, N.W.
Washington, D.C. 20007
Tel: (202) 333-0606
Fax: (202) 333-0817

Ambassador: The Honorable Yuriy Shcherbak
Secretary Economic Division: Mr. Serhy Schcherbak

Trade Representative of Ukraine

3350 M Street, N.W.
Washington, D.C. 20007
Tel: (202) 337-0293
Fax: (202) 342-3874
Trade Representative: Mr. Michael Reznik

Consulate General of Ukraine

240 East 49th Street
New York, New York 10017
Tel: (212) 371-5690
Fax: (212) 371-5547
Consul General: The Honorable Viktor Kryzhanivsky

Consulate General of Ukraine

10 East Huron Street
Chicago, Illinois 60611
Tel: (312) 642-4388
Fax: (312) 642-4385
Consul General: The Honorable Victor Kyryk

American Chamber of Commerce

#7 Kudriavsky Uzvis - 2nd Floor
Kyiv, Ukraine 252053
Tel: (380-044) 417-1413
Fax: (380-044) 212-1413
President: Bohdan Kupych
Executive Director: Ivan Komar

National Government Points of Contact in Ukraine**Key Ukrainian Government Leaders**

President	Leonid Kuchma Vul. Bankova, 11 Kiev, Ukraine 252008 Tel: (380-044) 226-3265 Fax: (380-044) 293-1001
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Prime Minister	Pavlo Lararenko Cabinet of Ministers Vul. Hrushevskiy, 12/2 Kiev, Ukraine 252008
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Tel: (380-044) 266-3263
Fax: (380-044) 293-2093

**Minister of
Foreign Affairs**

Hennadiy Udovenko
Myhailivska Square, 1
Kyiv, Ukraine 252018
Tel: (380-044) 226-3379
Fax: (380-044)-266-3169

**Minister of
Defense**

Valeriy Shmarov
vul. Bankivska, 6
Kyiv, Ukraine 252009
Tel : (380-044) 226-2637
Fax: (380-044) 226-2015

**Minister of
Foreign Economic
Relations & Trade**

Serhiy Osyka
Lviv Square, 8
Kyiv, Ukraine 252053
Tel: (380-044) 226-5233
Fax: (380-044) 226-2733
Andrew Gomcharuk (Deputy Minister)

**Minister of
Machine Building,
Military Industrial
and Defense
Conversion**

Valeriy Malyen
vul. Pushkinskaya, 6
Kyiv, Ukraine 252034
Tel: (380-044) 229-0390
Fax: (380-044) 291-5153

**Minister of Energy
& Power**

Vilen Semenyuk
vul. Khreshchatyk, 30
Kyiv, Ukraine 252001
Tel: (380-044) 226-3027
Fax: (380-044) 224-4021

**Minister of
Internal Affairs**

Yuriy Kravchenko
vul. Bohomolets, 10
Kyiv, Ukraine 252024
Tel: (380-044) 226-3317
Fax:(380-044) 226-2004

Minister of
Environmental
Protection and
Nuclear Safety

Yuriy Kostenko
vul. Khreshchatyk, 5
Kyiv, Ukraine 252001
Tel: (380-044) 226-2428
Fax: (380-044) 229-8383

Minister of
Industry

Valeriy Mazur
vul. Maryny Raskovoi, 15
Kyiv, Ukraine 252167
Tel: (380-044) 226-2623
Fax: (380-044) 227-4104

Minister of
Communications

Valeriy Yefremov
vul. Khreshchatyk, 22

Minister of Health

Yevhen Korolenko

Other National Government Points of Contact:

Ministry of Foreign Economic Relations

Foreign Trade Department
8 Lvivska Ploshcha, Room 1415
Kyiv-53, Ukraine 254655
Tel: (380-044) 212-5307
Fax: (380-044) 212-4911
Acting Chief: Semen Deoniziovich Manakh

Non-Tariff Regulations Department (License Issuance)
8 Lvivska Ploshcha, Room 1209
Kyiv-53, Ukraine 254655
Tel: (380-044) 212-5341
Fax: (380-044) 212-4863
Department Head: Valery Vasyloiovich Repetko

State Customs Committee

Politekhnichny Provulok, 4
Kiev-55, Ukraine 252055
Tel: (380-044) 446-9241; 446-5186
Fax: (380-044) 446-2315
Chairman: Anatoly Viktorovich Kolos

Boryspyl Customs

Tel: (380-044) 296-7046

Chief: Stanislav Havrilovich Didenko

Ukrtrans Union

Vul. Saksaganskoho, 83

Kyiv, Ukraine 252033

Tel: (380-044) 220-6183/6330

Fax: (044) 220-5710

Director General: Mykhailo Yliashov

State Committee on Oil and Gas, Petroleum Refining Industry

Vul. Khreshchatyk, 30

Kyiv, Ukraine 252001

Tel: (380-044) 226-3027

Fax: (380-044) 224-4021

Chairman: Yevhen M. Dovzhok

State Property Fund

Vul. Sadova, 3

Kyiv, Ukraine

Tel: 7-044-226-2611

Fax: 7-044-293-4556

Chairman: Yuri I. Yekhanurov

Deputy Chairman: Vadim V. Vasylev

State Property Fund

Department of Methodological Assistance for Foreign Investors

Vul. Kutuzov, 18/9

Kyiv, Ukraine 25133

Tel: (380-044) 295-4896

Fax: (380-044) 293-4556

Chief: Aleksandr Popov

State Property Fund

Foreign Relations Department

Vul. Sadova, 3

Kyiv, Ukraine

Tel/Fax: (380-044) 293-3917

Chief: Oleksandr Leonidovich Kalinichenko

Agency for International Cooperation and Investments

Room 601, Mykhaylivska Plosha, 1
Kyiv-18, Ukraine, 252018
Tel: (380-044) 212-8487
Fax: (380-044) 229-6014
First Deputy Chairman: Vadim Shulzhenko

International Arbitration Court of Ukraine

Ukrainian Chamber of Commerce and Industry
Vul. Velyka Zhytomyrska, 33
Kyiv, Ukraine 254655
Tel: (380-044) 212-3300
Fax: (380-044) 212-3353
President: Ihor Havrilovich Pobyrchenko

Supreme Arbitration Court of Ukraine

Vul. Khreshchatyk, 5
Kiev-1, Ukraine 252601
Tel: (380-044) 226-3239
Fax: (380-044) 228-7042
Head: Dymtro Prytyka

Regional Points of Contact in Ukraine:

Chamber of Commerce and Industry

Dnipropetrovsk Regional Office

Vul. Vakulenchuka, 3
Dnipropetrovsk 320061
Tel: 0562-91-20-14.

Chamber of Commerce and Industry

Donetsk Regional Office

Prospekt Dzerzhinskogo, 12
Donetsk 340066
Tel: 0622-92-80-60.

Chamber of Commerce and Industry

Khmelnytskaya Regional Office

Vul. R Luksemburg, 87
Khmelnytskyi 280000
Tel: 0380-06-50-97.

**Chamber of Commerce and Industry
Crimea Regional Office**

Vul. Naberezhnaya, 32
Simferopol, Krym Republic, 333000
Tel: 0652-27-66-41

**Chamber of Commerce and Industry
Lviv Regional Office**

Striysky Park, 14
Lviv 290011
Tel: 0322-74-32-22.

Lviv Privatization and Conversion Commission

Kalynik, Valery, Chief, Administration of Industrial, Transport,
and Communication Department

Tel: 72-48-24

Liubomir Tokar, Chief, Industrial, Transportation, and
Communication Department

Kharkiv City Executive Committee

Soviet Ukraine Square, 7

Kharkiv 310003.

Tel : 27-19-89

Fax: 115-233, Telex: 22-82-04.

Mikhail Pilipchuk, First Deputy Mayor

Kharkiv City Enterprise Council

Vul. Darvina, 21

310002 Kharkiv

Tel: 30-28-82

Mikhail Kaplunovsky, Chairman

Foreign Relations Department,

Tel: 45-31-86

Fax: 21-35-51

Mikhail Stanchev, Chief,

Tel: 0572-23-00-39; 0572-23-31-12

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Publications: *BISNIS Bulletin*; *BISNIS Commercial Opportunities*; *BISNIS Search for Partners*; *Commercial Overview of Ukraine*; *Sources of Finance for Trade and Investment in the CIS*; and over 100 handouts on doing business in the newly independent states of the former Soviet Union. *FlashFax BISNIS Bank* is an automated information bank of fast-breaking trade leads and market information provided immediately by fax. The *FlashFax* is available 24 hours a day, seven days a week, and is accessible by simply dialing 202-482-3145 from a touch tone phone.

Special American Business Internship Training Program (SABIT)

International Trade Administration
Room 3413
14th Street and Constitution Avenue, N.W.
Washington, D.C. 20230
Tel: 202-482-0073
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SABIT coordinates three- to six-month internships in the U.S. with qualified U.S. firms for senior-level business executives and scientists from the newly independent states of the former Soviet Union. Application brochures may be obtained from SABIT.

Office of Eastern Europe, Russia, and the Independent States

International Trade Administration
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Publication: *Obstacles to Trade and Investment in the New Republics of the Former Soviet Union: A Review of Impediments as Seen by the U.S. Business Community*, March 1992. To order, call or write the National Technical Information Service (NTIS), 5285 Port Royal Road, Springfield, VA 22161. Telephone (703) 487-4650, fax: (703) 321-8547, Telex: 64617 COMNTIS, Ask for Document number PB 92-161173.

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Commerce Business Daily (CBD) is a daily listing of government procurement invitations, contract awards, subcontracting leads, sales of surplus property, and foreign business opportunities, as well as certain foreign government procurements. The annual subscription cost is \$324.00 for first-class mail and \$275.00 for second-class. A six-month trial subscription costs \$162.00 for first-class mail and \$137.50 for second-class. To order the CBD, contact the U.S. Government Printing Office Superintendent of Documents (Tel: 202-783-3238; Fax: 202-512-2233).

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CEP monitors conversion activities in the United States, Russia, and around the world, publishing Research Reports, occasional papers, and policy recommendations.

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Contact: Kathryn Wittneben, Senior Program Officer

The Eurasia Foundation is a privately managed grantmaking organization established with financing from the U.S. Agency for International Development. The Eurasia Foundation supports technical assistance, training, educational and policy programs in the Newly Independent States (NIS) of the former Soviet Union (excluding the Baltic states) covering a wide range of activities in economic and democratic reform. Eurasia Foundation grants will be made to American organizations with partners in the NIS and directly to NIS organizations. The Eurasia Foundation's initial programmatic focus includes the areas of private sector development, public sector reform, and media and communications.

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Frishberg & Partners is a law firm based in Kiev, Ukraine, specializing in corporate and real property law. The firm advises private and institutional clients on a wide variety of real property transactions, including privatization and joint ventures with state-owned enterprises.

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FYI Information Resources undertakes proprietary research and project development assignments related to business, political, and environmental affairs in

the former Soviet Union (FSU). Founded in 1988, FYI has assembled a research and business operations staff, devoted exclusively to FSU affairs, that communicates regularly with an extensive network of Russian, Ukrainian, Baltic, and FYI affiliates. FYI provides a wide range of services and publishes and distributes a number of directories, reports, and periodicals which focus on doing business in the former Soviet Union.

Information Systems Inc.

P.O. Box 3127
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Tel: 203-221-7450
Contact: Barbara Shriver

Information Systems Inc. publishes a monthly newsletter, called *Ukrainian Business Digest*, on business and economic developments in Ukraine. The publication discusses government organization and changes as they affect business, market behavior, economic development, and business and investment opportunities. An annual subscription costs \$245.

International Center for Information, Inc. (ICI)

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Fax: 612-339-8240
Contact: Zenas Hutcheson, President

ICI recently completed a transportation directory for the Commonwealth of Independent States (CIS) that is a comprehensive source of detailed information on transportation hubs affecting importing and exporting to and from the CIS. The directory listings describe: seaports, rail stations, airports, customs posts, and foreign trade transportation offices.

Information on the transportation hubs includes seasons open (seaports), types of loading/unloading equipment available, and other specifications. Listings of customs posts and transportation offices include addresses and phone/fax numbers. A series of regional maps illustrates the transportation routes.

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Funded by the U.S. Agency for International Development (USAID), IESC supports teams of retired executives at locations in Ukraine, other NIS countries, and Eastern Europe. IESC suggests that U.S. firms contact its Stamford office to learn whether business plans for specific Ukrainian enterprises have been completed. IESC further suggests that Ukrainian enterprises contact IESC's Ukrainian office for technical assistance.

RinC International Publications

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Russia in Conversion (RinC) is a twice-monthly newsletter providing information and analysis of defense industry and ownership conversion opportunities in the former Soviet Union. It includes several sections (U.S. and Western Aid; Legislation; Aerospace; MINATOM/Closed Cities; and Conferences), and has a network of correspondents in the ten largest industrial cities of the former Soviet Union.

Ukraine Business Agency

London, England
Tel: 011-44-71-931-0665

Ukraine Business Agency publishes the *Ukrainian Business Review*, a quarterly source of information on business developments and the macroeconomic scene in Ukraine. The annual cost to U.S. companies with revenues greater than \$2 million is \$450. Smaller companies pay \$350.

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TO RECEIVE FUTURE EDITIONS OF THE DIRECTORY, COMPLETE THE FOLLOWING:

NAME: _____

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TO MAKE CHANGES, SUGGESTIONS, OR CORRECTIONS, PLEASE MAIL TO THE ADDRESS ON THE BACK OF THIS FORM.

ADVISE AND CONSENT:

The Defense Conversion Subcommittee (DCS) needs your advice on an important issue. Please take the time to read the following, answer the question and mail back to us.

Release of the Investment Opportunities in Ukrainian Defense Conversion Mailing List:

From time-to-time the DCS receives formal inquiries for copies of the Ukraine mailing list. If your name is included on the mailing list, please let us know whether your name may be disclose to FOIA requesters. The only basis for withholding your name is that you would not customarily disclose to the public that you may be working with the Department of Commerce on business development or outreach involving business development in Ukraine and are on the mailing list.

☐ I would customarily make this information public and authorize the release of my name and address; or

☐ I would not customarily make this information public.

FROM: _____

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